ORDER NO.DSD0306005C1

B24

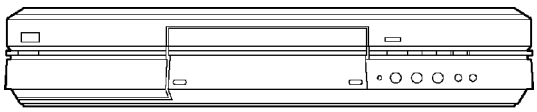
Service Manual

DVD Video Recorder

DMR-E80HP / DMR-E80HPC

Colour

(S).....Silver Type



SPECIFICATIONS

Specifications

Power supply:	AC120 V, 60 Hz
Power consumption:	35 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
Optical pick-up:	System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)
Recordable discs:	12 cm 4.7 GB DVD-RAM discs 12 cm 9.4 GB DVD-RAM discs 8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)
Recording time:	Max. 6 hours
(Using 4.7 GB disc):	XP: 60 minutes SP: 120 minutes LP: 240 minutes EP: 360 minutes

(Using built-in HDD):	**Max. 104 hours** **XP: 17 hours** **SP: 34 hours** **LP: 68 hours** **EP: 104 hours** **(continuous recording time is 6 hours max.)**
Region number:	**Region No.1**
Discs played:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)** **8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)** **DVD-VIDEOdiscs** **CD-Audio discs (CD-DA)** **Video CD discs** **DVD-Audio discs** **CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)**
Video system	
TV system:	**NTSC system, 525 lines, 60 fields**
Recording system:	**MPEG2 (Hybrid VBR)**
Input:	**LINE (pin jack), 1.0 Vp-p; 75 Ω** **S connector** **Y: 1.0 Vp-p; 75 Ω** **C: 0.286 Vp-p; 75 Ω**
Output:	**LINE (pin jack), 1.0 Vp-p; 75 Ω** **S connector** **Y: 1.0 Vp-p; 75 Ω** **C: 0.286 Vp-p; 75 Ω**
Component video output (480p/ 480i):	**Y: 1.0 Vp-p; 75 Ω** **PB : 0.7 Vp-p; 75 Ω** **PR : 0.7 Vp-p; 75 Ω**
D-connector output:	**Not provided**
Antenna reception input:	**TV Channel: 2ch-69ch, 75 Ω** **CATV Channel: 1ch-125ch, 75 Ω**
RF converter output:	**Not provided**
Audio system	
Recording system:	**Dolby Digital (XP/SP/LP/EP)** **LINEAR PCM (XP mode only)**

Input:	**LINE (pin jack)** **Reference input: 309 mVrms** **FS: 2 Vrms (1 kHz, 0 dB)** **Input impedance: 47 k Ω**
Output:	**LINE (pin jack)** **Reference output: 309 mVrms** **FS: 2 Vrms (1 kHz, 0 dB)** **Output impedance: 1 k Ω** **(Load impedance: 10 k Ω)**
Number of channels:	**Recording: 2 channels** **Playback: 2 channels**
Other input/output connectors:	**Digital audio optical output connector**
Dimensions:	**Approx.** **430 (W)×79 (H)×300 (D) mm** **[Approx. 16 15/16 "(W)×31 /8 " (H)×11 3/16 " (D)]** **(excludingprotrusions)**
Mass:	**Approx. 4.5 kg (9.92 lbs)**
Operating temperature range:	**5 °C-40°C (41 °F-104 °F)**
Operating humidity range:	**10 %-80 % RH (no condensation)**
Clock unit:	**Quartz-controlled 12-hour digital display**

LASER Specification

Class I LASER Product

Wave length:	**775-815 nm 655-666 nm**
Laser power:	**No hazardous radiation is emitted with the safety protection.**

Power consumption in standby mode:

approx. 3.1 W

Solder:

This model uses lead free solder (PbF).

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1772) is listed separately.

Please refer to ORDER NO. RAM0301002C0.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

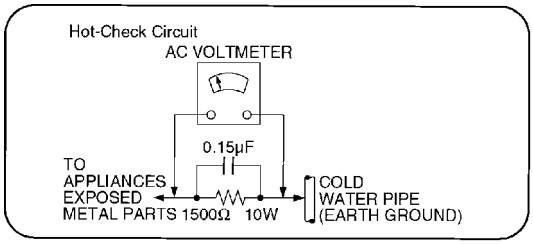
1.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1MΩ and 5.2MΩ. / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15 μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .

3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/ 2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder**

removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.

5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

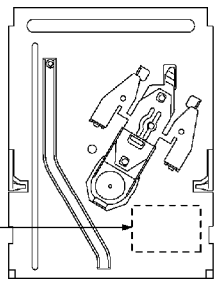
ACHTUNG:

Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.

Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Iudustrial Co., Ltd.
Kadoma, Osaka, Japan

DANGER – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRALING VED ÅBNING. UNGÅ UDSÆTTELSE FOR STRÅLING.
VARO! – AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEN STRAHL AUSSETZEN.
注意 –打开时有可见及不可见激光辐射。避免激光束照射。
注意 –ここを開くと可視及び不可視のレーザー光が出ます。ビームに直接当たり、触れたりしないでください。
RQLS0233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 15.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2032-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

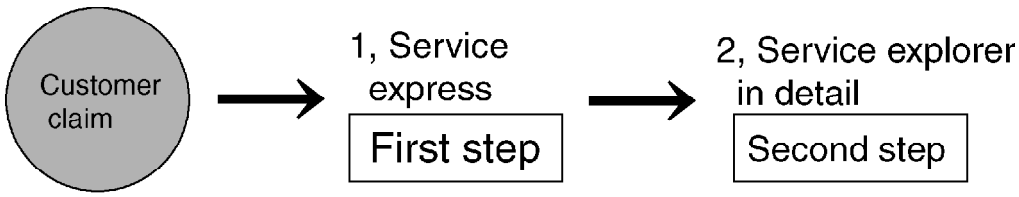
Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the "Service Explorer Express" andthe second is "Service Explorer in Detail".



1. For details about the service / test modesetting mentioned in the description, refer to the "List of various modes".

- Service mode setting: While the power is off, press TIME SLIP,

STOP, and OPEN / CLOSE simultaneously for five seconds.

- Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.

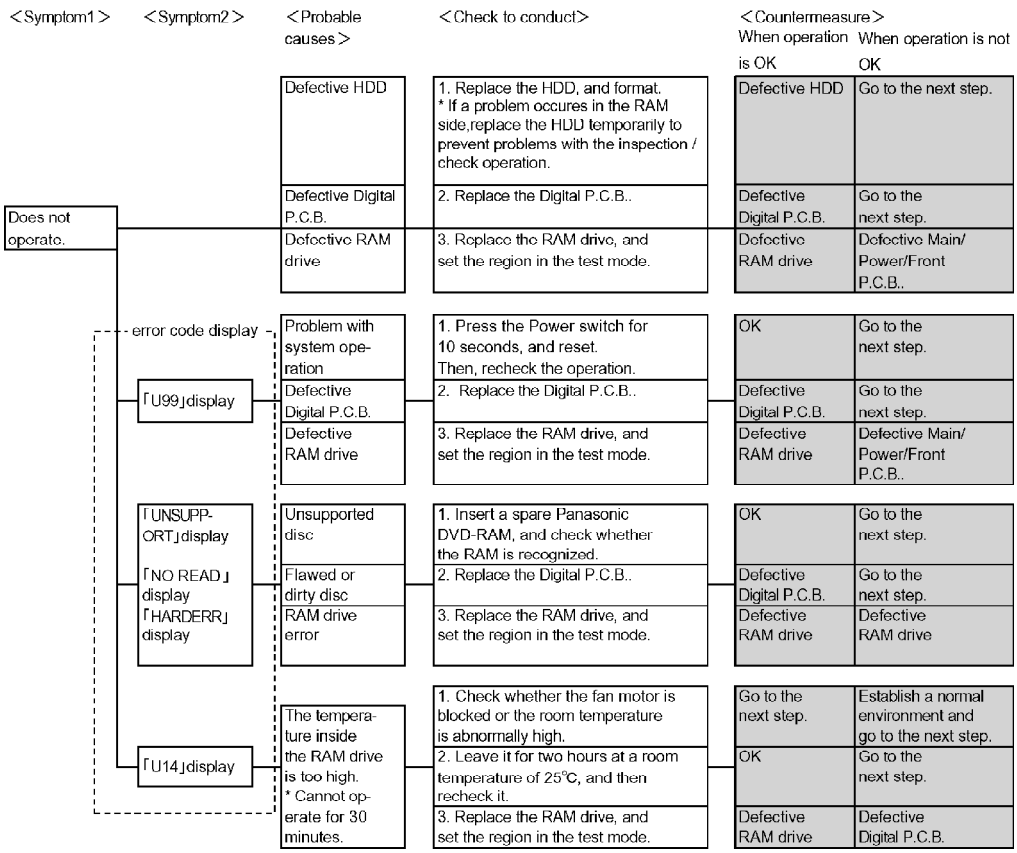
2. For disassembly and replacement procedures, refer to the "Assembling and Disassemling".

6.1. Service Explorer Express

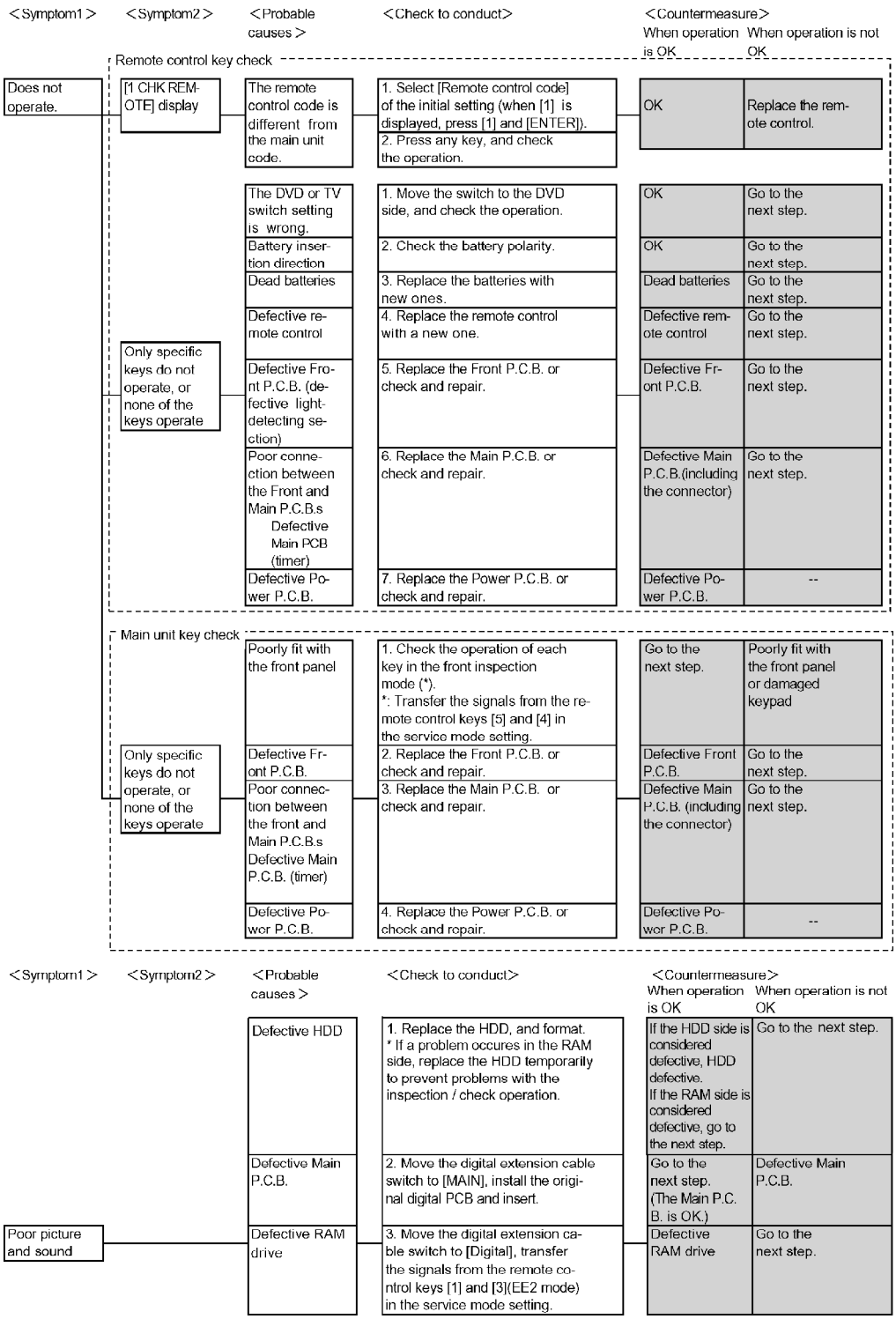
The following steps allow you to check each block separately (HDD, UART P.C.B., Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).

Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control HDD, UART P.C.B..

Conditions: Nothing special.



<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Does not operate.		Defective HDD	1. Replace the HDD, and format. * If a problem occures in the RAM side,replace the HDD temporarily to prevent problems with the inspection / check operation.	Defective HDD	Go to the next step.
		Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/ Power/Front P.C.B..
	error code display	Problem with system operation	1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.	OK	Go to the next step.
	「U99」display	Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/ Power/Front P.C.B..
	「UNSUPPORT」display 「NO READ」display 「HARDERR」display	Unsupported disc	1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.	OK	Go to the next step.
		Flawed or dirty disc	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		RAM drive error	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective RAM drive
	「U14」display	The temperature inside the RAM drive is too high. * Cannot operate for 30 minutes.	1. Check whether the fan motor is blocked or the room temperature is abnormally high.	Go to the next step.	Establish a normal environment and go to the next step.
			2. Leave it for two hours at a room temperature of 25°C, and then recheck it.	OK	Go to the next step.
			3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Digital P.C.B.



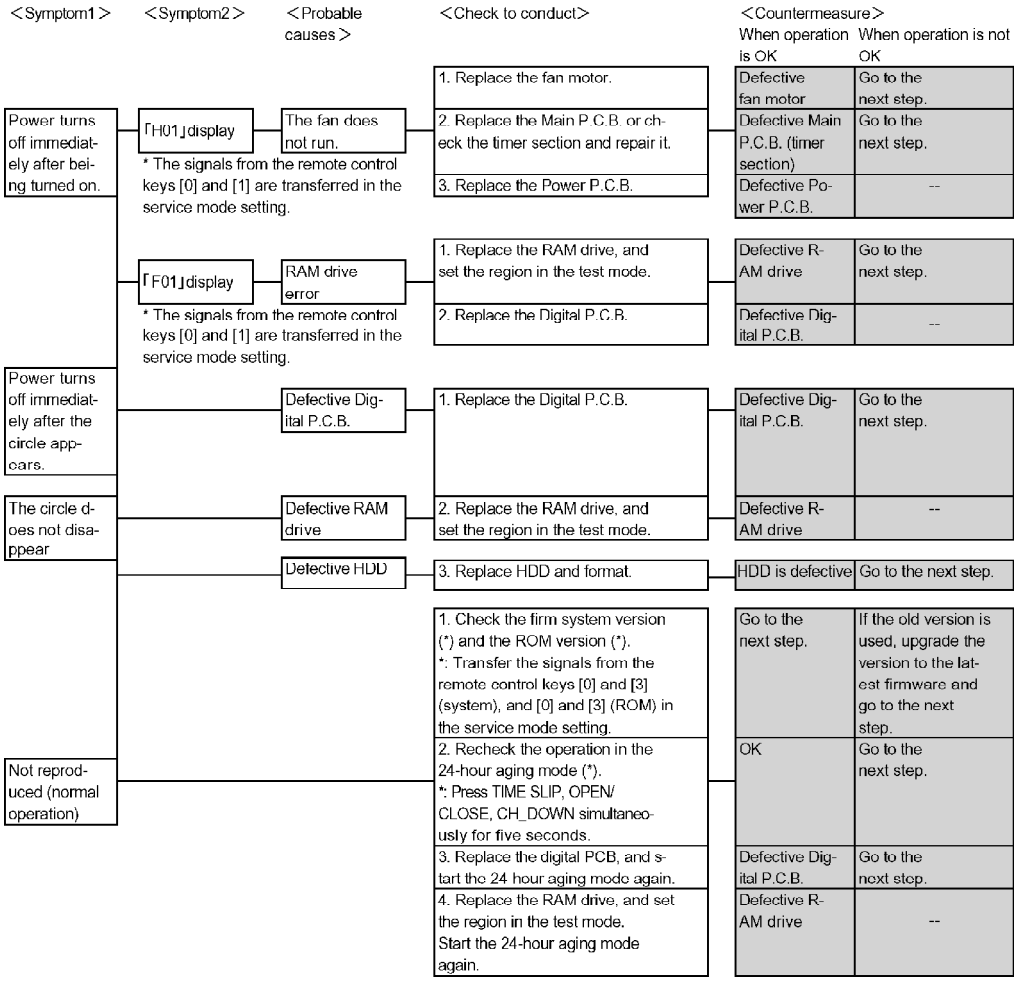
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Does not operate.	Remote control key check				
	[1 CHK REMOTE] display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]). 2. Press any key, and check the operation.	OK	Replace the remote control.
	Only specific keys do not operate, or none of the keys operate	The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side, and check the operation.	OK	Go to the next step.
		Battery insertion direction	2. Check the battery polarity.	OK	Go to the next step.
		Dead batteries	3. Replace the batteries with new ones.	Dead batteries	Go to the next step.
		Defective remote control	4. Replace the remote control with a new one.	Defective remote control	Go to the next step.
		Defective Front P.C.B. (defective light-detecting section)	5. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s Defective Main PCB (timer)	6. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B.(including the connector)	Go to the next step.
		Defective Power P.C.B.	7. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--
	Main unit key check				
	Only specific keys do not operate, or none of the keys operate	Poorly fit with the front panel	1. Check the operation of each key in the front inspection mode (*). *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step.	Poorly fit with the front panel or damaged keypad
		Defective Front P.C.B.	2. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the front and Main P.C.B.s Defective Main P.C.B. (timer)	3. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Power P.C.B.	4. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	<Countermeasure> When operation is not OK
Poor picture and sound		Defective HDD	1. Replace the HDD, and format. * If a problem occures in the RAM side, replace the HDD temporarily to prevent problems with the inspection / check operation.	If the HDD side is considered defective, HDD defective. If the RAM side is considered defective, go to the next step.	Go to the next step.
		Defective Main P.C.B.	2. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	3. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.
Conditions: Nothing special.


＜Symptom1＞
＜Symptom2＞
＜Probable causes＞
＜Check to conduct＞
＜Countermeasure＞
When operation is OK
When operation is not OK
Power turns off immediately after being turned on.
「H01」display
The fan does not run.
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the fan motor.
2. Replace the Main P.C.B. or check the timer section and repair it.
3. Replace the Power P.C.B.
Defective fan motor
Go to the next step.
Defective Main P.C.B. (timer section)
Go to the next step.
Defective Power P.C.B.
--
「F01」display
RAM drive error
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the RAM drive, and set the region in the test mode.
2. Replace the Digital P.C.B.
Defective RAM drive
Go to the next step.
Defective Digital P.C.B.
--
Power turns off immediately after the circle appears.
Defective Digital P.C.B.
1. Replace the Digital P.C.B.
Defective Digital P.C.B.
Go to the next step.
The circle does not disappear
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
--
Defective HDD
3. Replace HDD and format.
HDD is defective
Go to the next step.
Not reproduced (normal operation)
1. Check the firm system version (*) and the ROM version (*).
*: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.
Go to the next step.
If the old version is used, upgrade the version to the latest firmware and go to the next step.
2. Recheck the operation in the 24-hour aging mode (*).
*: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.
OK
Go to the next step.
3. Replace the digital PCB, and start the 24 hour aging mode again.
Defective Digital P.C.B.
Go to the next step.
4. Replace the RAM drive, and set the region in the test mode.
Start the 24-hour aging mode again.
Defective RAM drive
--

6.2.2. Poor Pictures

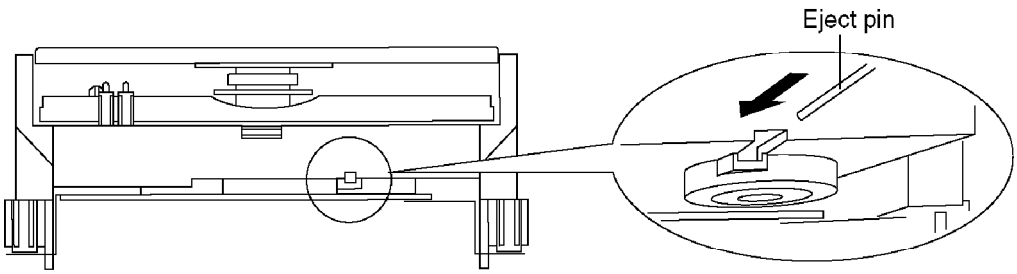
Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.
Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

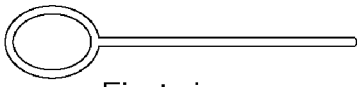
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Noise in the picture and sound. No picture color		The signal is too weak.	1.Confirm whether connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	7. Replace HDD, and format.	Defective HDD	Go to the next step.
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	5. Replace HDD, and format.	Defective HDD	Go to the next step.
Picture and sound are not synchronized		Poor turner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	3.Replace HDD, and format.	Defective HDD	Go to the next step.
Block noise		Defective RAM drive, Digital P.C.B. and HDD.	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B.	(Auto recording and playback) Defective Digital P.C.B.	--
			3. Replace HDD, and format.	Defective HDD	(Auto recording and playback) Go to the next step.
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Other

Items needed: Digital P.C.B., HDD.
Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. Using the remote control, set the AV limit level to "8", and set the ID number to "0000". Or, when the tray is open, press SKIP(R) and SKIP(L) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.





Eject pin
(Part number: JZS0484)

Turn the gear with an eject pin.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
A timer program has not been created.	「F12」display	Timer program error (defective Main P.C.B.)	1. Replace the Main P.C.B. or check and repair. Check the timer program operation using the timer section.	Defective Main P.C.B.	--

* Transfer the signals from the remote control keys [0] and [1] in the service test setting.

6.2.4. Caution when replacing the parts

1. RAM Drive

In case the unit does not operate normally after replacement of the RAM Drive with new one.

A. While power is off, press [SKIP], [TIME SLIP] and [OPEN/ CLOSE] keys simultaneously for five seconds. Then the unit turns into "TEST Mode", and the region code is stored on the new RAM Drive automatically.

FL Indication:

TEST L1

After few seconds, turn off the power and turn on the power

again, then the unit operates normally.

Note:
In this case, all parameters are initialized.

2. Timer Microprocessor (IC7501)

In case the unit does not operate normally after replacement of the Timer Microprocessor with new one.

A. While power is ON, short IC7501-1 (RESET) and the GND in order to transmit the “RESET (L)” to the reset terminal of Timer Microprocessor (IC7501-18), then the unit operates normally.

7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

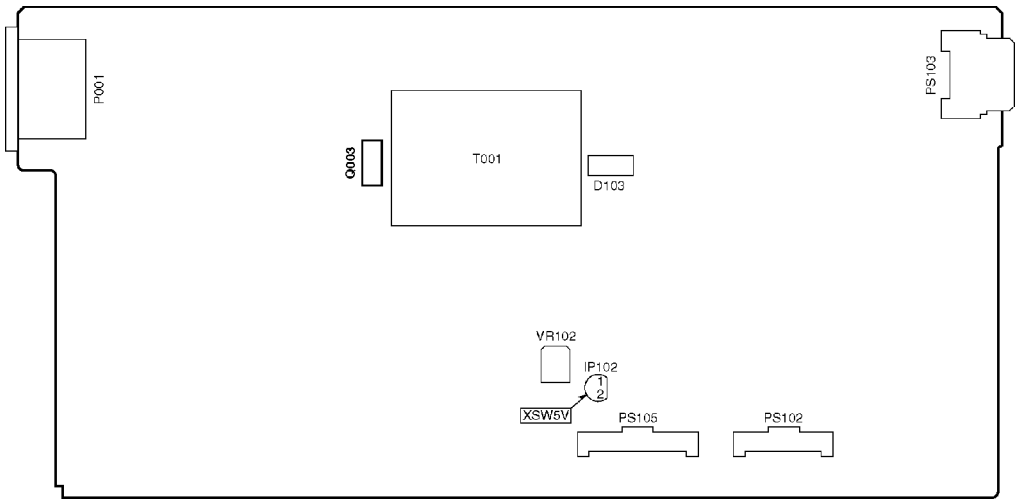
No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recog
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
4	Model with the HDD : Perform auto recording and playback for one minute using the HDD	No abnormality should be seen in the pict sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the display. After checking it, turn the power off.
8	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Maku sure that [TEST L1] appears in the F display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Item	Contents	Check
	Block noise		Distorted sound	
	Crosscut noise		noise (static, background noise, etc.)	
	Dot noise		The sound level is too low.	
Picture	Picture disruption	Sound	The sound level is too high.	
	Not bright enough		The sound level changes.	
	Too bright			
	Flickering color			
	Color fading			

7.2. Power supply +5V Adjustment Procedure

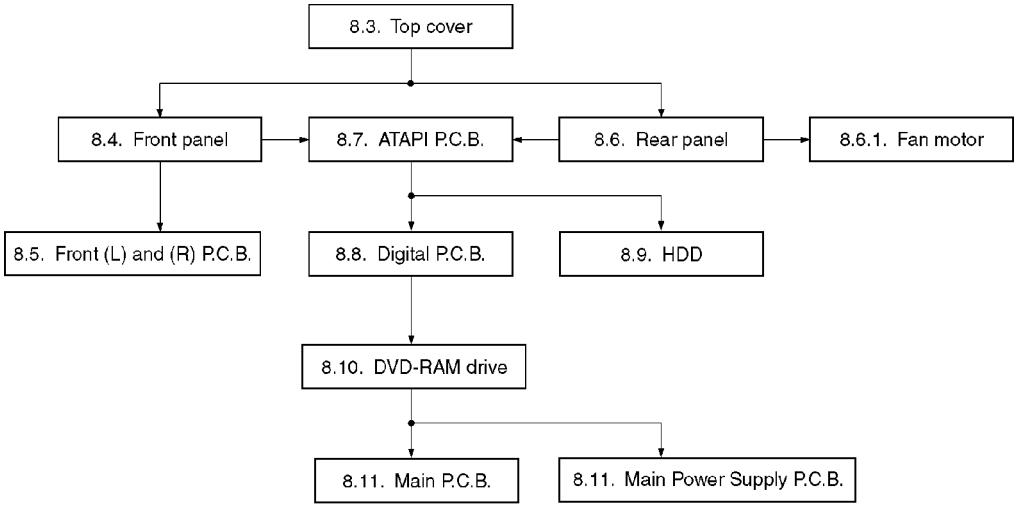
1. When the T001, Q003 and D103 is replaced, adjust the “XSW5V” measuring point (IP102-2) in the VR102 to the value between 5.12-5.15V.



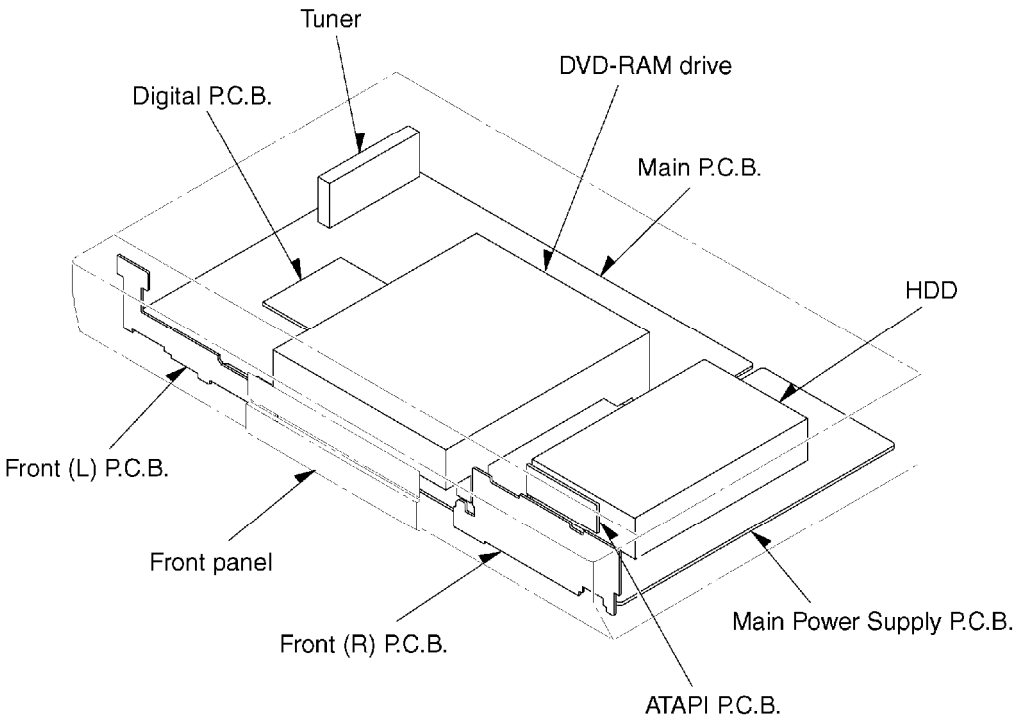
8. Assembling and Disassembling

8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.



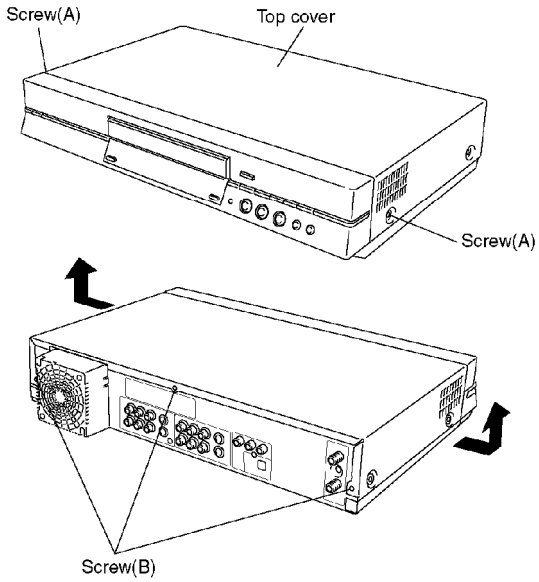
8.2. P.C.B. Positions



8.3. The Top Cover

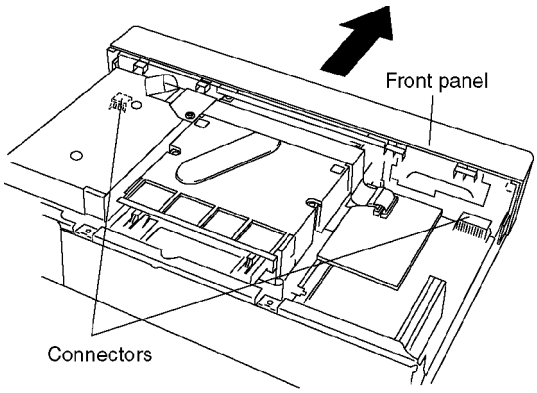
1. Remove the 2 screws (A) and 3 screws (B).

2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.



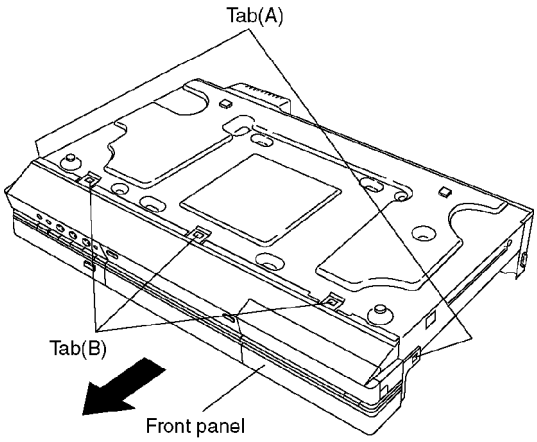
8.4. The Front panel

1. Remove the 2 connectors.



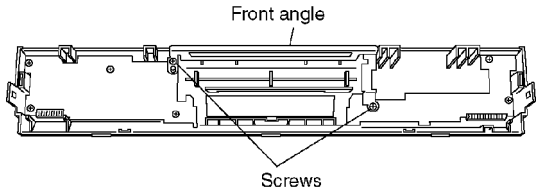
2. Remove the 2 tabs (A) and 3 tabs (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

3. Move the front panel to your side slowly and remove it.



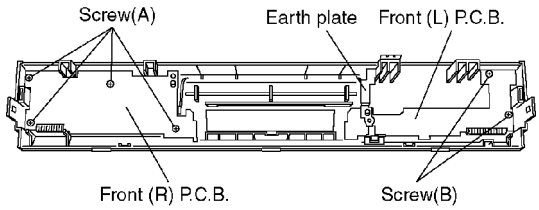
8.5. The Front (L) and (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.



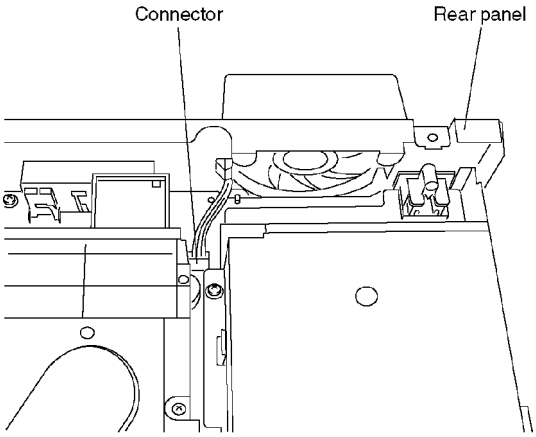
2. Remove the 4 screws (A) and remove the Front (R) P.C.B.

3. Remove the 2 screws (B) with Earth plate and remove the Front (L) P.C.B.



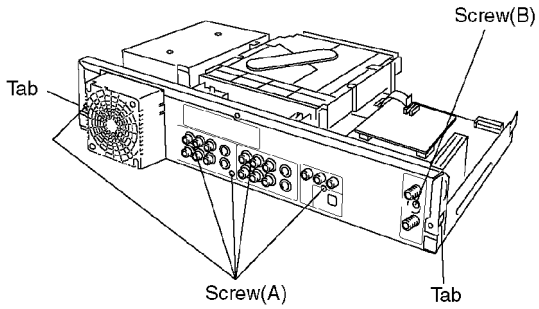
8.6. The Rear panel

1. Remove the Fan Motor connector.



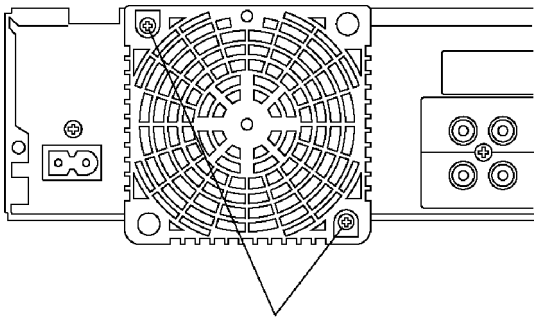
2. Remove the 5 screws (A) and 1screw (B).

3. Remove the 2 tabs and remove the Rear panel.

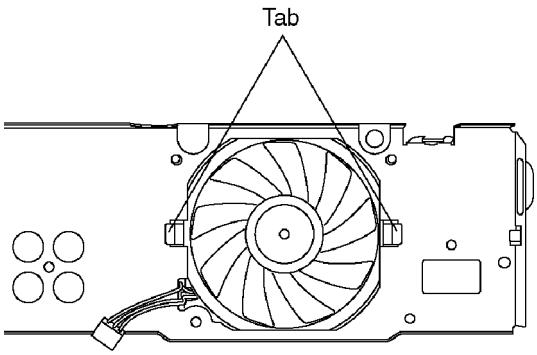


8.6.1. In case of removing Fan motor from Rear panel

1. Remove the 2 screws.



2. Remove the 2 tabs.



8.7. The ATAPI P.C.B.

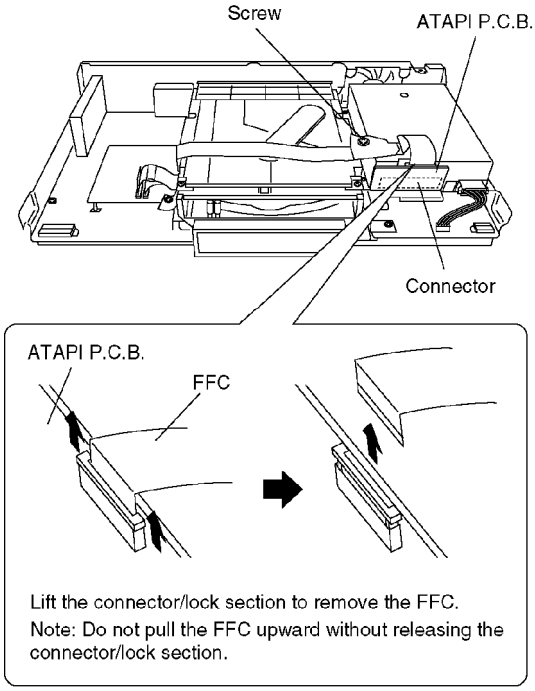
1. Remove a screw.

2. Remove the connector.

1. Remove the FFC.

CAUTION:

When replacing ATAPI P.C.B., pay attention as below.

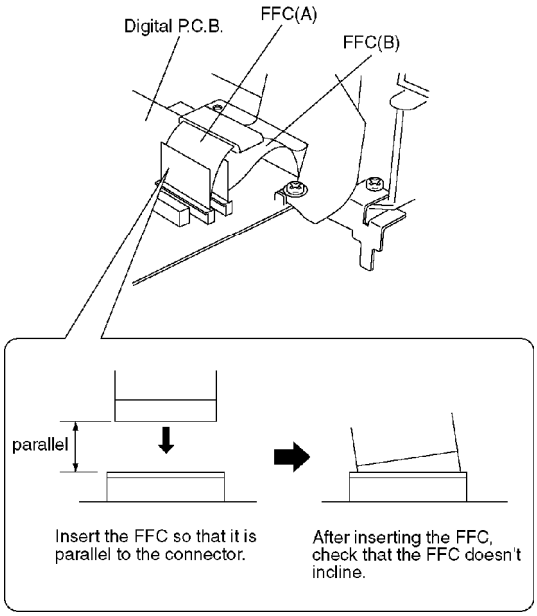


8.8. The Digital P.C.B.

1. Remove the FFC(A) and FFC(B)..

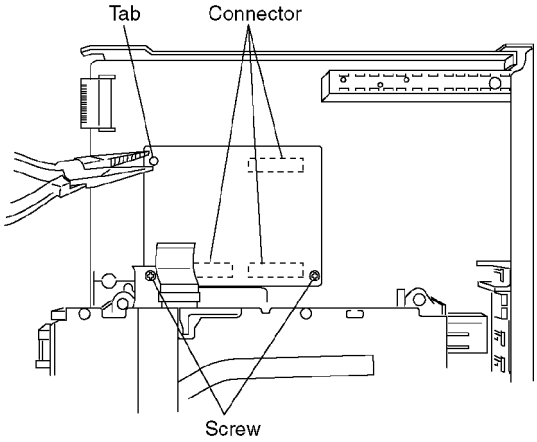
CAUTION:

When replacing Digital P.C.B., pay attention as below.


Digital P.C.B.
FFC(A)
FFC(B)
parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC doesn't incline.

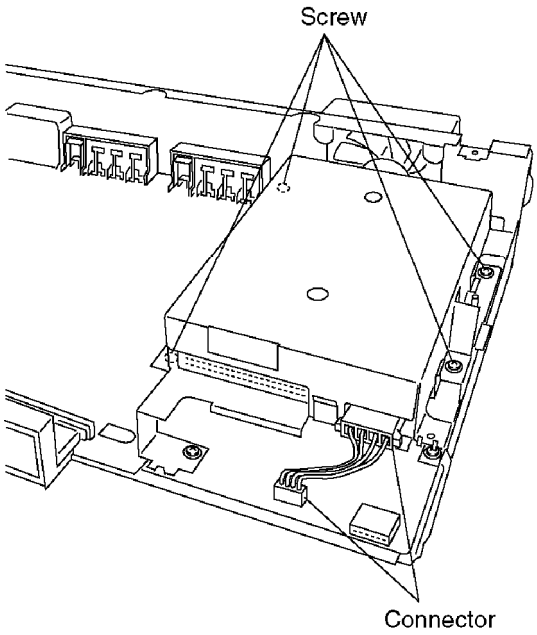
2. Remove the 2 screws.

3. Press each tab with the nipper to pull out the 3 Connectors and Digital P.C.B.

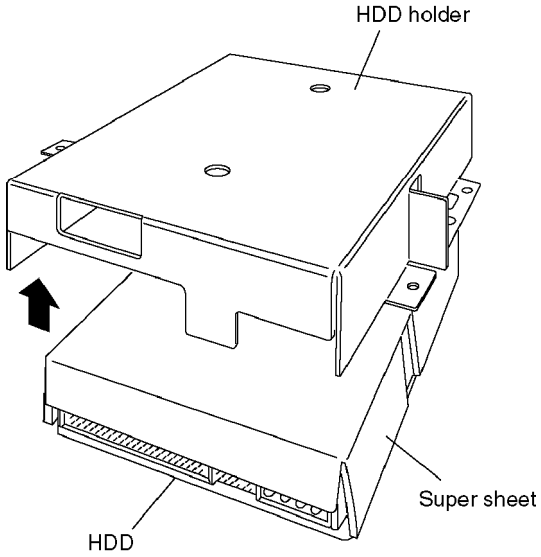


8.9. HDD

1. Remove the 4 screws.



2. Pull out the HDD holder vertically from Super sheet and HDD



Handling of HDD

The following precautions should be taken when handling HDD.

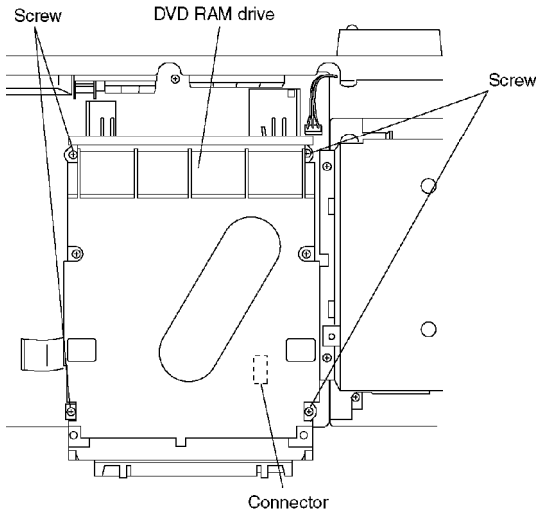
1. Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.)
2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.
3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.
4. Avoid stacking up HDD.
5. HDD is unstable and easy to fall. Do not stand it on its side face.
6. When handling HDD, hold its side faces to avoid static hazard.
7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard)
8. Use a screwdriver with low impact and anti-static features.
9. To replace HDD, remove the vertical short-circuit pin.
(Keep the horizontal short-circuit pin in its place)

Note:
When replacing HDD, please make the rear jumper slave configuration.
(same configuration as HDD to exchange)

8.10. The DVD-RAM Drive

1. Remove the 4 screws.

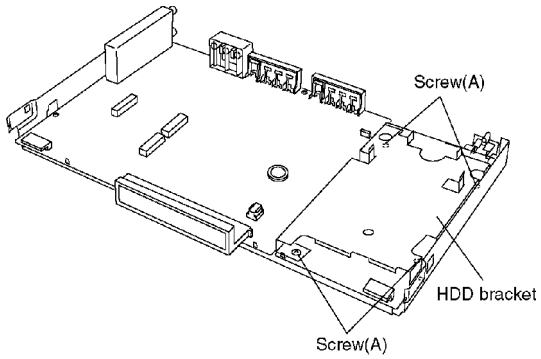
2. Pull out the DVD-RAM Drive vertically and remove the connector.



8.11. The Main Power Supply P.C.B. and Main P.C.B.

1. Remove the 4 screws (A).

2. Remove the HDD bracket.

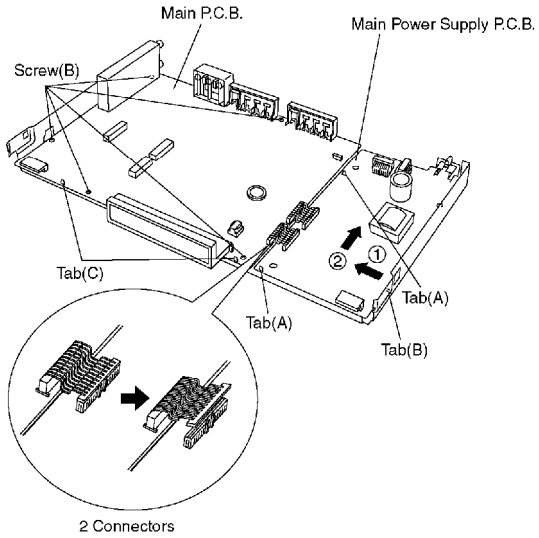


3. Remove the 2 connectors and 2 tabs (A).

4. Remove the Main Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow.① to ②.

5. Remove the 5 screws (B) and 2 tabs (C).

6. Remove the Main P.C.B.



9. Service Positions

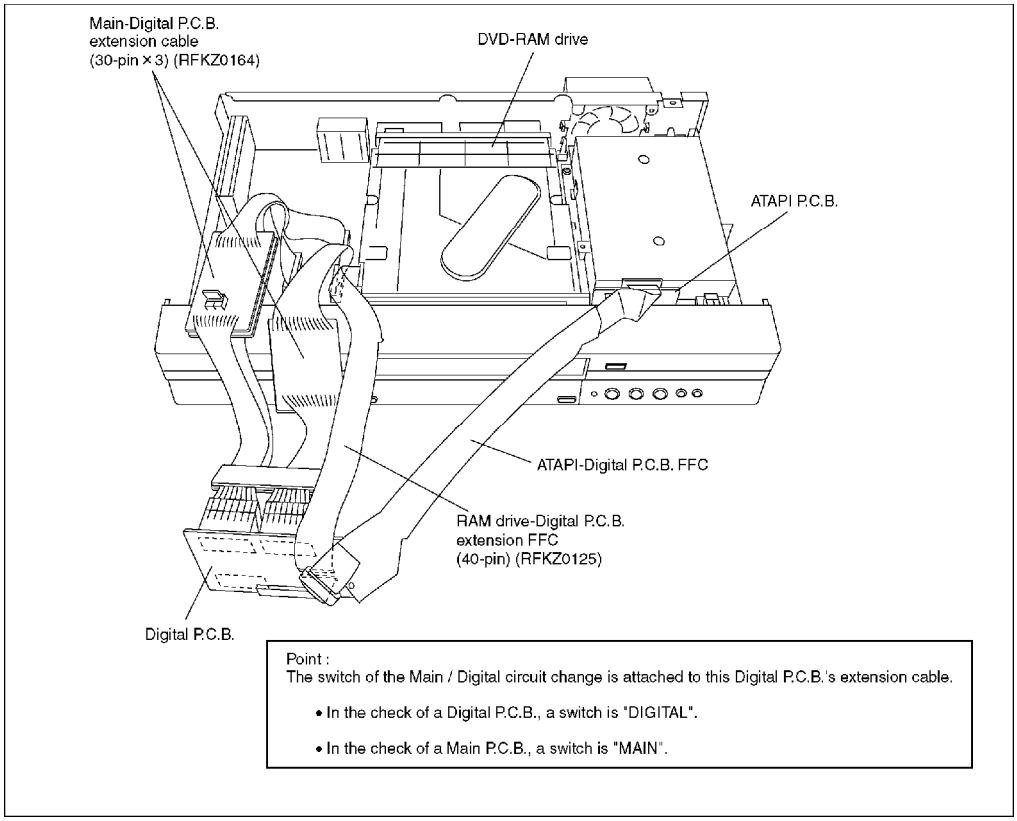
9.1. Checking procedure

Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B.

1. **Remove the Top Cover.**
2. **Remove the FFC (ATAPI - Digital P.C.B.).**
3. **Remove the FFC (RAM Drive - Digital P.C.B.)**
4. **Remove the Digital P.C.B.**
5. **Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.**
6. **Use the extension FFC (RFKZ0125) to connect the RAM Drive and Digital P.C.B.**
7. **Connect the ATAPI and Digital P.C.B.**

Service tools	
Extension FFC (RAM Drive - Digital P.C.B.)	**RFKZ0125 (40Pin)**
Extension Cable (Main P.C.B. - Digital P.C.B.)	**RFKZ0164 (30Pin x 3)**

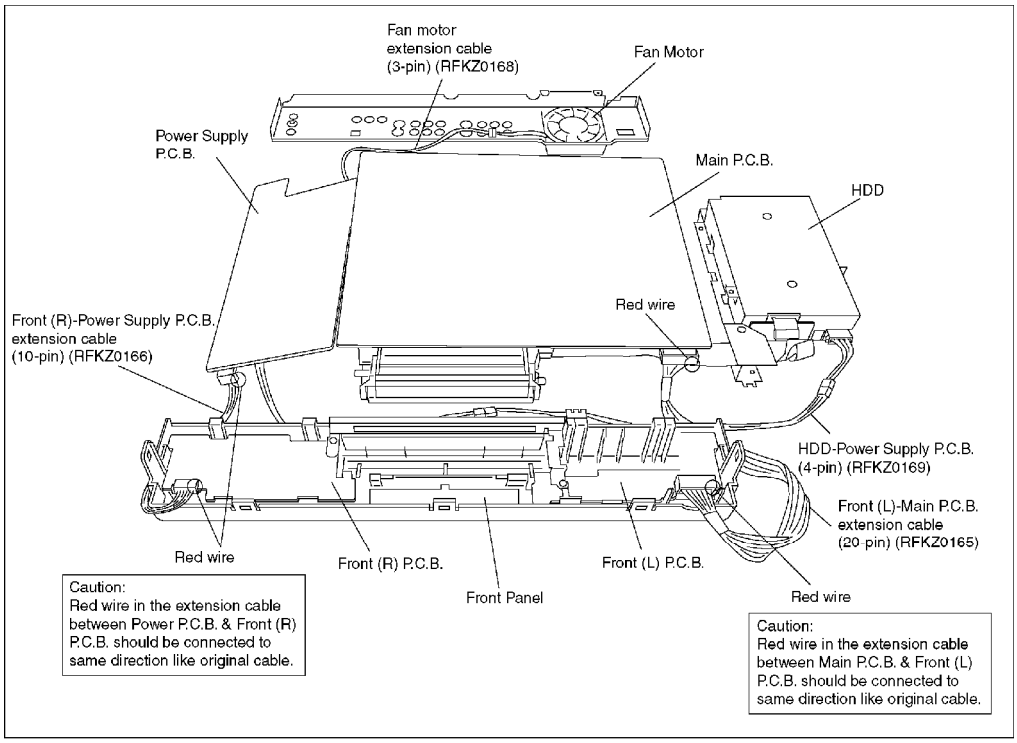

Main-Digital P.C.B.
extension cable
(30-pin × 3) (RFKZ0164)
DVD-RAM drive
ATAPI P.C.B.
ATAPI-Digital P.C.B. FFC
RAM drive-Digital P.C.B.
extension FFC
(40-pin) (RFKZ0125)
Digital P.C.B.
Point :
The switch of the Main / Digital circuit change is attached to this Digital P.C.B.'s extension cable.
• In the check of a Digital P.C.B., a switch is "DIGITAL".
• In the check of a Main P.C.B., a switch is "MAIN".

9.3. Checking the Main P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive and HDD.**
5. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.**
6. **Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.**
7. **Connect the Power Supply P.C.B., Main P.C.B. and RAM Drive and HDD.**
8. **Install to the service positions views.**
9. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front P.C.B. (L).**
10. **Use the extension cable (RFKZ0166) to connect the Power supply**

P.C.B. and Front P.C.B. (R).

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20Pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10Pin)**
Extension Cable (HDD - Power supply P.C.B.)	**RFKZ0169 (4Pin)**
Extension cable (Fan motor)	**RFKZ0168 (3Pin)**


Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
Power Supply P.C.B.
Main P.C.B.
HDD
Red wire
Front (R)-Power Supply P.C.B. extension cable (10-pin) (RFKZ0166)
HDD-Power Supply P.C.B. (4-pin) (RFKZ0169)
Front (L)-Main P.C.B. extension cable (20 pin) (RFKZ0165)
Red wire
Front (R) P.C.B.
Front Panel
Front (L) P.C.B.
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

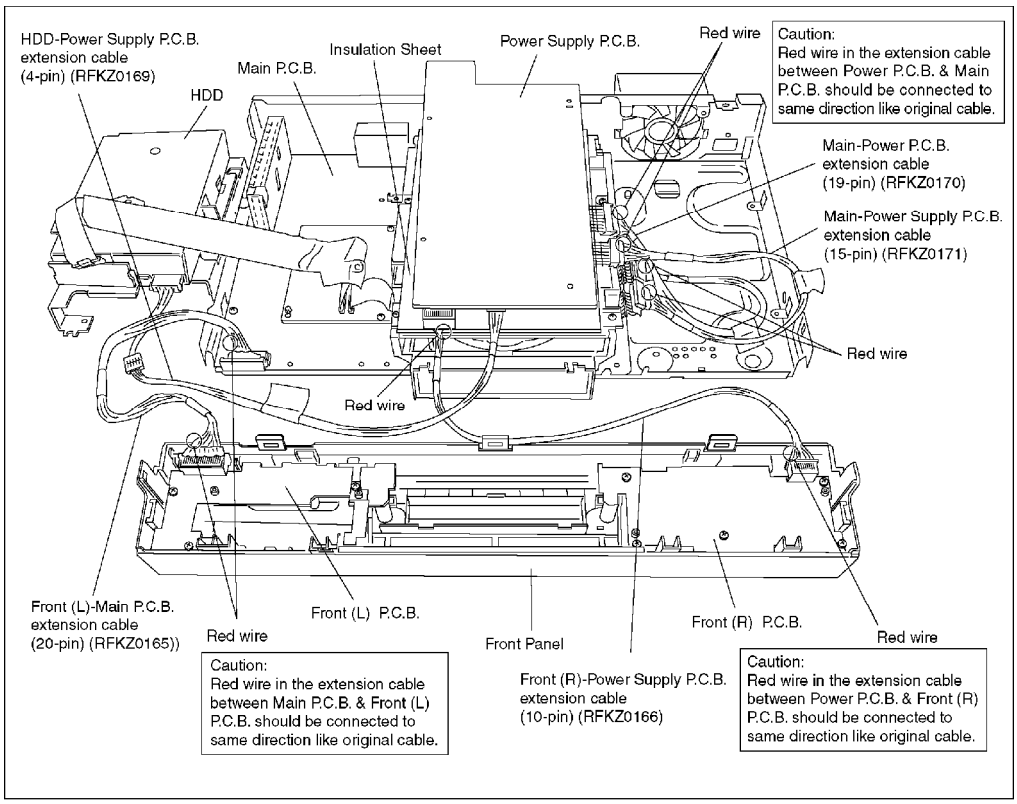
9.4. Checking the Power Supply P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..**
4. **Remove the HDD with HDD bracket.**
5. **Use the extension cable (RFKZ0169) to connect the HDD and**

Power supply P.C.B.

6. **Remove the Power Supply P.C.B., fix it on the insulation sheet.**
7. **Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..**
8. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.**
9. **Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.**

Service tools	
Extension Cable (HDD - Power supply P.C.B.)	**RFKZ0169 (4 pin)**
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20-pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0170 (19-pin)**
Extension Cable (Main P.C.B. - Power supply P.C.B.)	**RFKZ0171 (15-pin)**


HDD-Power Supply P.C.B. extension cable (4-pin) (RFKZ0169)
HDD
Main P.C.B.
Insulation Sheet
Power Supply P.C.B.
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
Main-Power P.C.B. extension cable (19-pin) (RFKZ0170)
Main-Power Supply P.C.B. extension cable (15-pin) (RFKZ0171)
Red wire
Red wire
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165))
Red wire
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Red wire
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.
Front (R)-Power Supply P.C.B. extension cable (10-pin) (RFKZ0166)
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD	To turn power on or off on the DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/Show view/VIDEO Plus+
AV	To set AV input on the TV.
Numeric buttons(10key)	To put each number for selecting each functions.
CANCEL	To cancel maker.
SKIP(Reverse) / (Forward)	To skip chapter or marker position for reverse or forward direction.
STOP	To stop the recording or playback .
PAUSE	To still for playback or pause for recording.
DIRECT NAVIGATOR/ TOP MENU	<PROGRAMME NAVIGATION> To display menu for recoeded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
FUNCTIONS	To display function menu.
TIMER	To turn timer function on or off.
PROG/CHECK	To display timer porgram menu.
TV	To turn power on or off on the TV.
DVD/TV	To select DVD or Tv operation.
REC	To set the recording.
DIRECT TV REC	To immediately record present TV program that you are watching on the TV. * Scart cable must be connected with TV. * Q-link function must be installed in the TV.

Each buttons name	Functions
CH UP/DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.
SLOW/SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or review during playback.
PLAY/X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
MANUAL SKIP	To skip after 30seconds.
TIME SLIP	(HDD,RAM,DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD,RAM,DVD-R) To playback recorded program by setting time duration for each 1minute.* During recording or playback,playback 30seconds previous by pressing the button.
REC MODE	To set recording speed.
F Rec	To frexible recording with best quality to caluculate recording rate within remaining recording time.
STATUS	To display product status,time status & present bit-rate.
INPUT SELECT	To set AV input on the DVD.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.

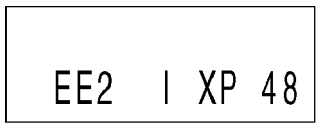
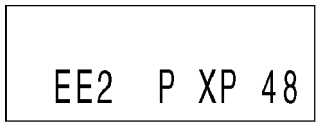
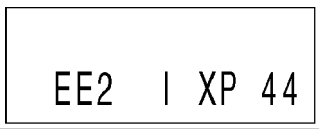
Each buttons name	Functions
FRAME (Reverse/ Forward)	To set frame advance.
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
AV LINK	To playback on the DVD and select AV1 mode on the TV automatically. * Scart cable must be connected with TV.
DISPLAY	To select disc,playback,picture & sound status.
OPEN/CLOSE	To open or close tray.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

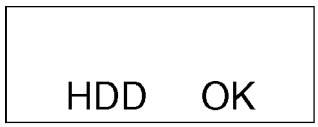
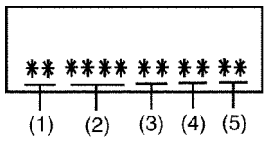
10.2. Special modes at a glance

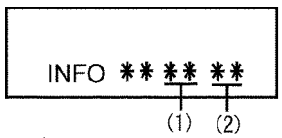
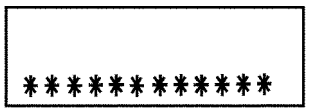
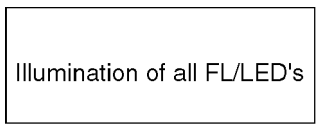
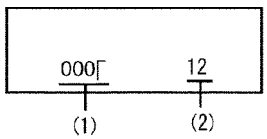
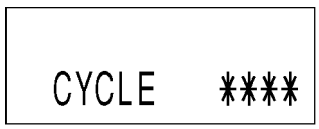
10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service mod
Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F）	[0] [1] while in service mod
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mod
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) WHIT I	[1] [1] while in service m
		Progressive/ Interlace switched. WHIT P	[1] [4] while in white picture *I ⟵ ⟶ P Toggle switched.
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) MAGE I	[1] [2] while in service m
		Progressive/ Interlace switched MAGE P	[1] [4] while in Magenta pict mode *I ⟵ ⟶ P Toggle switched.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
RTSC return XP (A& V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) 	[1] [3] while in service m
		Progressive/ Interlace switched. 	[1] [4] while in RTSC return mode *I ⟵ ⟶ P Toggle switched.
		Audio 44.1kHz/ 48kHz switch 	[2] [4] while in RTSC retur mode *48k ⟵ ⟶ 44.1k Toggle swi
I/P switching	“Interlace” and “Progressive” are switched. Initial setting is “Interlace”. (This command is effective when performing 14 and 15.)	Initialization mode Progressive 	[1] [4] while in service m *I ⟵ ⟶ P Toggle switch
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.		[2] [1] while in service m
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).		[2] [2] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) 	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. 	[2] [4] while in white picture *48k ← → 44k Toggle switc
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK  If the HDD is negative, the OK section will read [NG].	[3] [1] in the service mode.
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	 * (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	[4] [2] while in service m
Laser use time display	To check laser use time of drive	 * (*)displays the time (in hours). * The last working time is incremented in both the DVD/CD Play and Record modes.	[4] [1] while in service m
Laser error count	The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.	 * (*)is the number of times a laser error occured. * This information is saved to EEPROM on the RAM drive.	[4] [3] while in service m

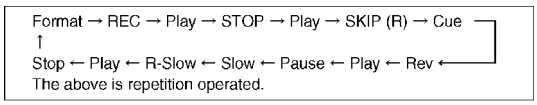
Item		FL display	Key operation
Mode name	Description		Remote controller ke
Factors which cause drive error	The disc condition is displayed when an error occures.	 * (1)Error disc type. * (2)Status of error disc. * The details can be checked using the separate table. * This information is saved to EEPROM on the RAM drive.	[4] [4] while in service m
Disc manufacture ID	Display the manufacture's ID for a disc on which a drive error has occured.	 The display example can be checked using the separate table.	[4] [5] while in service m
Illumination of all FL /LEDs	All FL and LEDs are lit up.		[5] [1] while in service m
S1 signal output	Forcibly superimpose the S1 signal (5V DC) on the EE chroma signal, and check the output on the S terminal.		[5] [2] while in service m
S2 signal output	Forcibly superimpose the S2 signal (2.2V DC) on the EE chroma signal, and check the output on the S terminal.		[5] [3] while in service m
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B..	 *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	[5] [4] while in service m
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	 *FL display of the CYCLE count out.	[9] [1] while in service m * AC power should be turn to release this operatio
Error code initialization	Initialization of the last error code held by timer (Write in F00)		[9] [8] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m

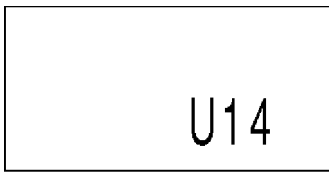
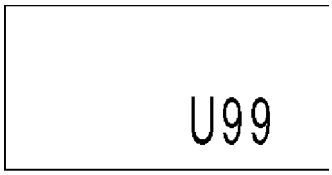
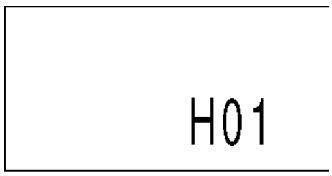
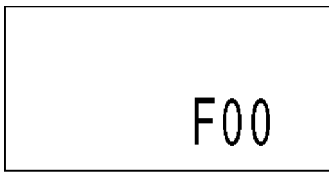
10.2.2. Other special modes

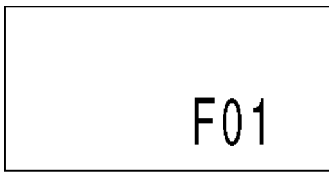
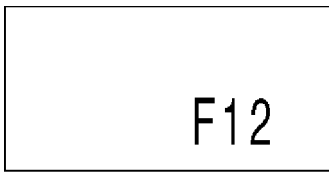
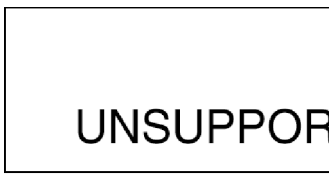
Item		FL display	Key operation
Mode name	Description		Remote controller ke
TEST Mode	*All the main unit's parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST L1	When the power is off, pres SKIP(R), TIME SLIP and OPI CLOSE simultaneously for seconds.
Rating password	The audiovisual level setting password is canceled.	---	Open the tray, and press SK and SKIP(L) simultaneously five seconds.
Demonstration Lock	Ejection of the disc is prohibited.-	---	Press the OPEN/CLOSE but and make sure that [LOCK] displayed. Then, with the p on, press STOP and POWEI simultaneously for five sec
Forced disc eject	Removing a disc that cannnot be ejected.	---	When the power is off, pres STOP and CH_UP simultaneously for five sec
Progressive initialization	The progressive setting is initialized.	---	In STOP(EE) mode, press C and CH DOWN simultaneou for five seconds.
ATP initialization	The ATP setting is initialized.	---	In STOP(EE) mode, press S and TIME SLIP simultaneou for five seconds.
Aging	See the * Aging Description below.	---	When the power is off, pres TIMEWARP + OPEN / CLOS CH DOWN simultaneously f five seconds.

*** Aging Description**



10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 Displayed from the time of detection and while key en disabled after power-off (3 minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	 Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.

Display	Diagnosis	Description	FL display
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
10	Audio-CD
20	2.6GB DVD-RAM
30	4.7GB DVD-RAM
40	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contents			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	
	IREF	INTERPOLATION FLAG
	ISEL	I (CURRENT) REFERENCE
		INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK /	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	VSS	VIDEO FEED BACK
		VOLTAGE REFERENCE
		SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Main Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Front (L) P.C.B.

12.4. Front (R) P.C.B.

12.5. P9001, P9002, P9003 Connectors

12.6. P9001, P9002 Waveform

13. Block Diagram

13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 15)

13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram

13.5. Digital Section Block Diagram

13.5.1. Digital Block IC Pin Terminal Chart (TC 1 - TC 25)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)

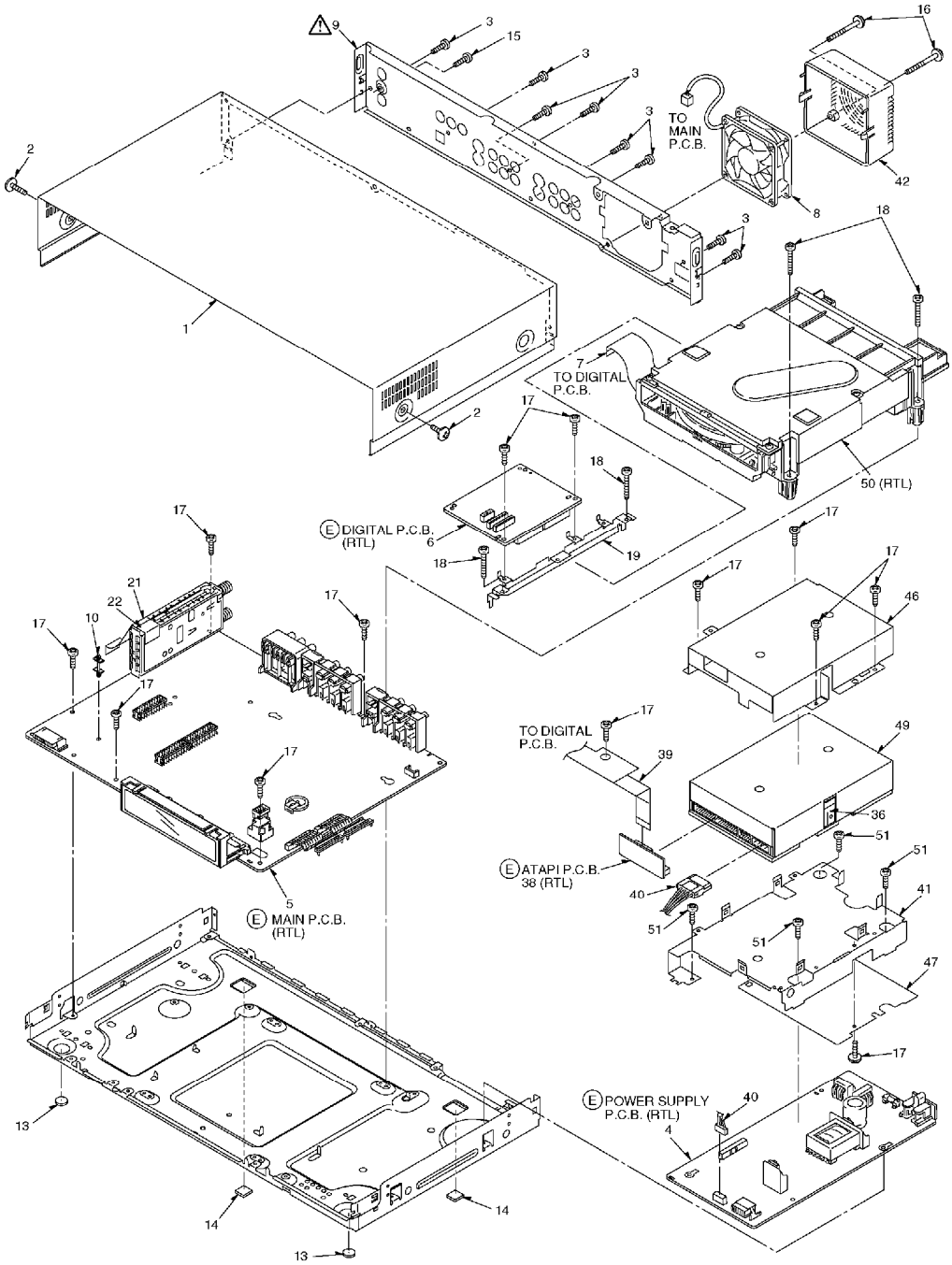
14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)

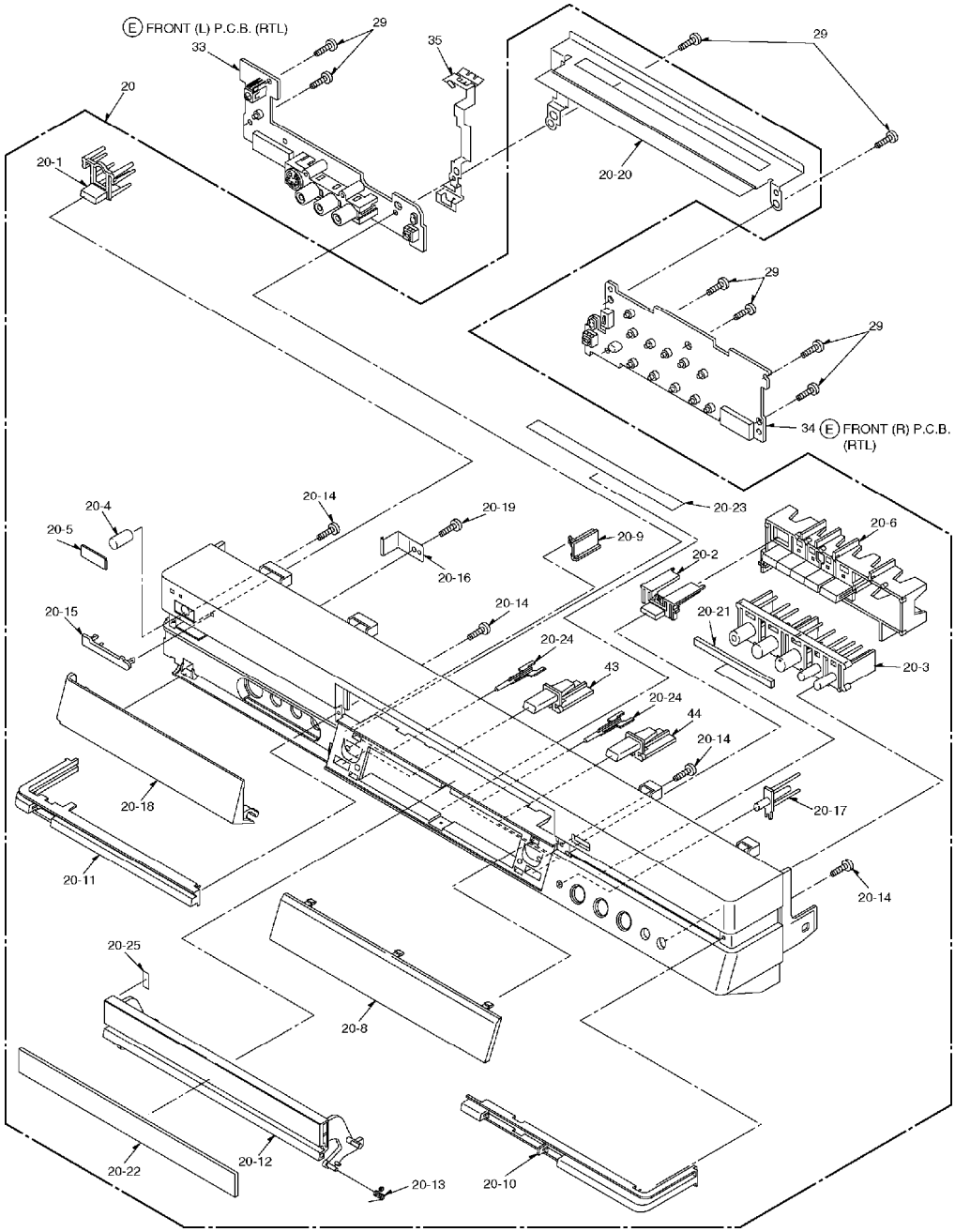
14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)

14.14. ATAPI Schematic Diagram

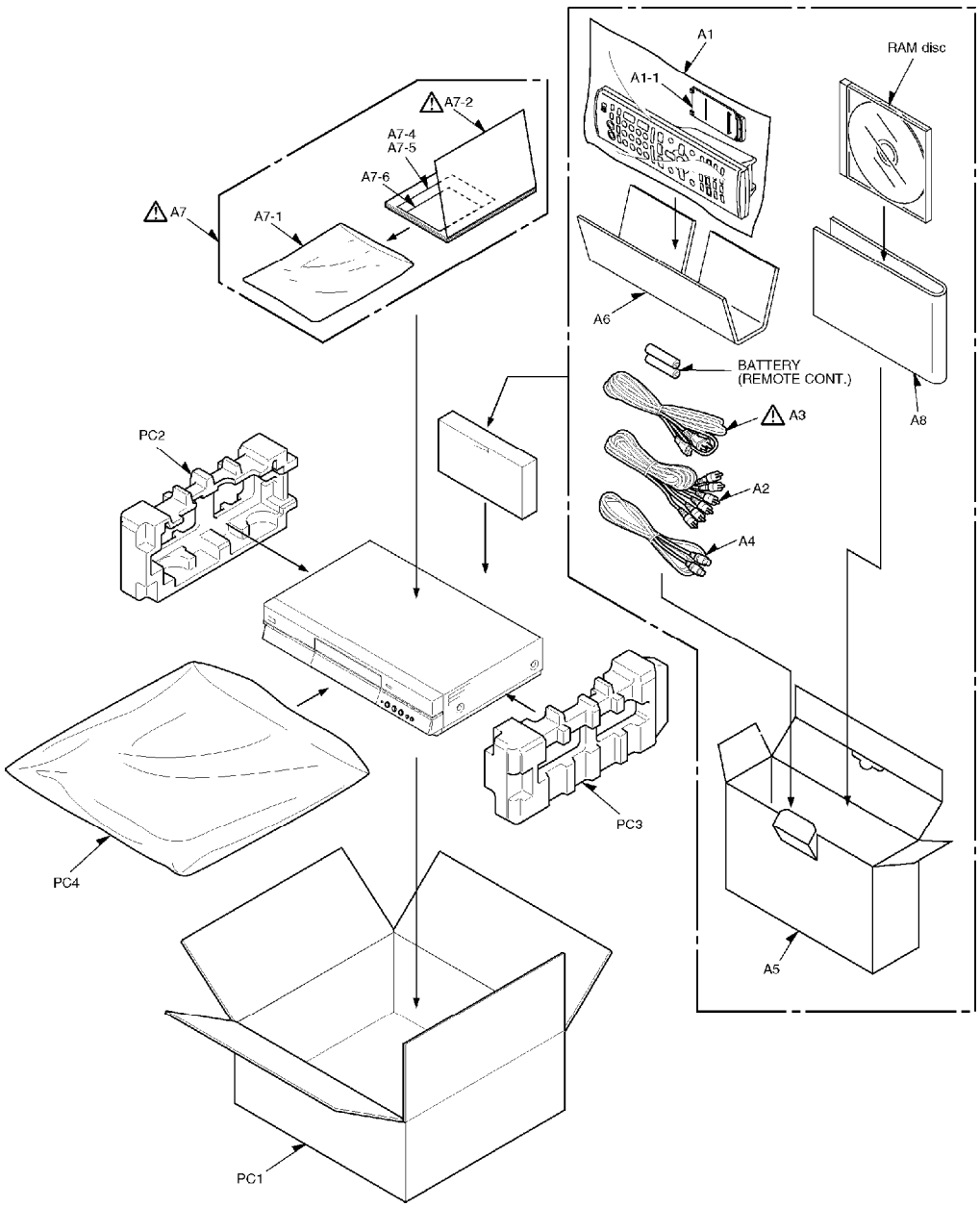
14.15. Front (L) Schematic Diagram
14.16. Front (R) Schematic Diagram
15. Print Circuit Board
15.1. Main Power Supply P.C.B.
15.2. Main P.C.B.
15.2.1. Main P.C.B. (Section 1/4)
15.2.2. Main P.C.B. (Section 2/4)
15.2.3. Main P.C.B. (Section 3/4)
15.2.4. Main P.C.B. (Section 4/4)
15.2.5. Main P.C.B. Address Information
15.3. Digital P.C.B.
15.3.1. Digital P.C.B. (Section 1/2)
15.3.2. Digital P.C.B. (Section 2/2)
15.3.3. Digital P.C.B. Address Information
15.4. ATAPI P.C.B.
15.5. Front (L) P.C.B.
15.6. Front (R) P.C.B.
16. Exploded Views
16.1. Casing Parts & Mechanism Section 1



16.2. Casing Parts & Mechanism Section 2



16.3. Packing & Accessories Section



17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***"<IA>"-"<IB>", marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: Canadian French] All parts aresupplied by S.P.C..**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	⚠
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	8	
4	ETXMM447A4G	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3497M	MAIN P.C.B.	1	(RTL)
6	REP3496F	DIGITAL P.C.B.	1	(P)
6	REP3496FG	DIGITAL P.C.B.	1	(PC)
7	VWJ1650	FFC(40P)	1	
8	L6FALCCE0004	FAN MOTOR	1	
9	RGR0337J-B	REAR PANEL	1	(P) ⚠
9	RGR0337J-C	REAR PANEL	1	(PC) ⚠
10	RMX0244	PCB HOLDER	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	2	
17	XTN3+7F-C	SCREW	12	
18	RHD30106	SCREW	4	
19	RMA1640	DIGITAL ANGLE	1	
20	RYP1197A-S	FRONT PANEL ASS'Y1	1	
20-1	RGU2185A-K	POWER BUTTON	1	
20-2	RGU2186-S	OPEN BUTTON	1	
20-3	RGU2188-S	OPERATION BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2187A-K	CHANNEL BUTTON	1	
20-8	RGK1625A-S	FL ORNAMENT	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1623A-K	FRONT ORNAMENT(R)	1	
20-11	RGK1622-K	FRONT ORNAMENT(L)	1	
20-12	RKF0667-K	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0539	EARTH PLATE	1	
20-17	RGL0620-Q	LIGHTING PIECE	1	
20-18	RKF0666E-S	PANEL DOOR	1	
20-19	XTBS26+8J	SCREW	1	
20-20	RMA1639	FRONT ANGLE	1	
20-21	RMX0253	DAMPER SHEET	1	
20-22	RGK1651-S	TRAY ORNAMENT	1	
20-23	RMZ0693	SHEET	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-24	RGL0629-Q	PANEL LIGHT(B)	2	
20-25	RMX0268	DOOR DAMPER	1	
21	VGQ5954	TAPE	1	
22	RGQ0324-K	SHEET	1	
29	XTBS26+10J	SCREW	8	
33	REP3528DB	FRONT(L) P.C.B.	1	(RTL)
34	REP3528EA	FRONT(R) P.C.B.	1	(RTL)
35	RMC0549	EARTH PLATE (A)	1	
36	N3CBBTM00005	HARD DISC DRIVE ASS'Y	1	
38	REP3542A	ATAPI P.C.B.	1	(RTL)
39	VEK0D56	FFC(40P)	1	
40	VEE0U08	WIRE WITH CONNECTOR(4P)	1	
41	RMA1675	HDD BRACKET	1	
42	RMN0751	FAN COVER	1	
43	RGU2206-Q	HDD BUTTON	1	
44	RGU2207-Q	DVD BUTTON	1	
46	RMA1674	HDD HOLDER	1	
47	RMZ0700	INSULATED SHEET	1	
49	RXQ1073	SUPER SHEET	1	
50	VXY1772-S	RAM DRIVE UNIT	1	(RTL)
51	XTW3+6M	SCREW	4	
A1	EUR7624KB0	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	K2CB2CB00006	AC CORD	1	⚠
A4	VJA1091	RF COAXIAL CABLE	1	K1TXAAA00001
A5	RPQF0250	ACCESSORY CASE	1	
A6	RPQ1594	PAD	1	
A7	RQF5175	FAN BAG ASS'Y	1	(P) ⚠
A7	RQF5253	FAN BAG ASS'Y	1	(PC) ⚠
A7-1	RPF0378	POLYETHYLENE BAG(F.B.)	1	(PC)
A7-1	RPF0375	POLYETHYLENE BAG(F.B.)	1	(P)
A7-2	RQT7143-C	OPERATING INSTRUCTIONS	1	(PC)<IB> ⚠
A7-2	RQT6984-P	OPERATING INSTRUCTIONS	1	<IA> ⚠
A7-4	RQCA1004	DISC CAUTION SHEET	1	
A7-5	RQCA1119	HDD CAUTION SHEET	1	
A7-6	RQCC2431	DVD MEDIA SHEET	1	(P)
A8	RPQ1450	PAD(A)	1	
PC1	RPG6574	PACKING CASE	1	(P)
PC1	RPG6721	PACKING CASE	1	(PC)
PC2	RPN1624A	CUSHION(L)	1	
PC3	RPN1624B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG	1	
■	02	REP3497M		
B7501	CR-2032/1GUF	LITHIUM BATTERY	1	
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1505,06	F2A0J471A256	6.3V 470U	2	
C1507	ECJ1VB1C104K	16V 0.1U	1	
C1508	F2A0J470A012	6.3V 47U	1	
C1509	F2A1E4700048	25V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C1532	ECJ1VB1C104K	16V 0.1U	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECJ1VC1H390J	50V 39P	2	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECJ1VC1H390J	50V 39P	1	
C3012	ECJ1VB1H103K	50V 0.01U	1	
C3013	ECEA0JKS470	6.3V 47U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3018	ECJ1VC1H220J	50V 22P	1	
C3019,20	ECJ1VC1H330J	50V 33P	2	
C3022	ECJ1VB1H103K	50V 0.01U	1	
C3023	ECJ1VB1C104K	16V 0.1U	1	
C3024	ECEA0JKS470	6.3V 47U	1	
C3025	ECJ1VC1H102J	50V 1000P	1	
C3027	ECEA1HKS010	50V 1U	1	
C3028,29	ECJ1VB1H103K	50V 0.01U	2	
C3030	ECJ1VC1H561J	50V 560P	1	
C3031	ECJ1VB1C104K	16V 0.1U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECJ1VB0J105K	6.3V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3050	ECJ1VB1C104K	16V 0.1U	1	
C3051	ECEA0JKS101	6.3V 100U	1	
C3052,53	ECEA0JKS470	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3066	ECJ1VB1H102K	50V 1000P	1	
C3067	ECEA1HSN010	50V 1U	1	
C3068	ECEA0JKS220	6.3V 22U	1	
C3069	ECJ1VB1H103K	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3070	ECJ1VB1H472K	50V 4700P	1	
C3071	ECJ1VB1H103K	50V 0.01U	1	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECJ1VC1H390J	50V 39P	1	
C3076-84	ECJ1VB1H103K	50V 0.01U	9	
C3085	ECJ1VB1H473K	50V 0.047U	1	
C3086-91	ECJ1VB1H103K	50V 0.01U	6	
C3092	ECJ1VB1C104K	16V 0.1U	1	
C3093,94	ECJ1VB1H103K	50V 0.01U	2	
C3095	ECEA0JKS470	6.3V 47U	1	
C3096	ECJ1VB1C104K	16V 0.1U	1	
C3097	ECJ1VC1H220J	50V 22P	1	
C3098	ECJ1VC1H150J	50V 15P	1	
C3099	ECJ1VC1H220J	50V 22P	1	
C3100	ECJ1VB1H103K	50V 0.01U	1	
C3101,02	ECEA0JKS470	6.3V 47U	2	
C3103	ECJ1VC1H180J	50V 18P	1	
C3104	ECJ1VC1H102J	50V 1000P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904-06	ECJ1VB1H103K	50V 0.01U	3	
C3907	ECJ1VB1C104K	16V 0.1U	1	
C4003	F2A1H100A236	50V 10U	1	
C4005	F2A1E470A205	25V 47U	1	
C4006	F2A1H100A236	50V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4023	F2A1H100A236	50V 10U	1	
C4025	F2A1H100A236	50V 10U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1E470A205	25V 47U	2	
C4037-42	F2A1H100A236	50V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECJ2VC1H680J	50V 68P	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H680J	50V 68P	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1A101A206	10V 100U	1	
C4063,64	F2A1E470A205	25V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4068	ECJ1VF1C104Z	16V 0.1U	1	
C4070	F2A1A101A206	10V 100U	1	
C4072	F2A1A101A206	10V 100U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082-85	ECJ2VC1H102J	50V 1000P	4	
C4901	F2A1A101A206	10V 100U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904	ECJ1VF1C104Z	16V 0.1U	1	
C4906	ECJ1VC1H220J	50V 22P	1	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	F2A0J470A013	6.3V 47U	1	
C7411	ECJ1VB1C104K	16V 0.1U	1	
C7412	F2A1A470A140	10V 47U	1	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7432,33	F2A1C100A019	16V 10U	2	
C7438	ECJ1VB1C104K	16V 0.1U	1	
C7439	F2A0J470A013	6.3V 47U	1	
C7502	ECJ1VB1H103K	50V 0.01U	1	
C7503	ECJ1VB1C104K	16V 0.1U	1	
C7504-06	ECJ1VC1H100C	50V 10P	3	
C7507,08	ECJ1VB1H103K	50V 0.01U	2	
C7517	ECJ1VB1H103K	50V 0.01U	1	
C7518,19	ECJ1VF1C104Z	16V 0.1U	2	
C7523,24	ECJ1VB1H103K	50V 0.01U	2	
C7525	F2A1H100A146	50V 10U	1	
C7526	ECJ1VF1H104Z	50V 0.1U	1	
C7528	F2A1C221A019	16V 220U	1	
C7529	F2A0J221A016	6.3V 220U	1	
C7531	ECQB1H223KF3	50V 0.022U	1	
C7532	F2A1V470A116	35V 47U	1	
C7533	F2A1H100A146	50V 10U	1	
C7534	ECJ1VC1H100C	50V 10P	1	
C7535	ECJ1VF1C104Z	16V 0.1U	1	
C7536	ECJ1VC1H120J	50V 12P	1	
C7537	ECJ1VF1A105Z	10V 1U	1	
C7539	ECJ1VC1H101J	50V 100P	1	
C7543-45	ECJ1VC1H101J	50V 100P	3	
C7546	ECJ1VF1C104Z	16V 0.1U	1	
C7547,48	ECJ1VC1H030C	50V 3P	2	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C9701,02	ECJ1VF1C104Z	16V 0.1U	2	
D3001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7513,14	B0JACE000001	DIODE	2	
DP7501	A2BD00000070	FL DISPLAY TUBE	1	
IC1502	C0DBEFG00002	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBZHG00012	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC1508	C0DBZHE00014	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3002	C2BBFE000137	IC	1	
IC3003	C1AB00001805	IC	1	
IC3005	C9ZB00000377	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000118	IC	1	
IC4009	C0ABBB000118	IC	1	
IC4010	C0DBZJG00006	IC	1	
IC4011	C0DBZHG00012	IC	1	
IC4012	C0ABBB000118	IC	1	
IC7405	C0BBBB000006	IC	1	
IC7501	C2BBGF000419	IC	1	
IC7502	C0EBJ0000143	IC	1	
IC7503	C0EBF0000182	IC	1	
IC7504	C0ZBZ0000732	IC	1	
IC7505	C0EBH0000263	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠
JK3901	K1U822B00001	JACK,AV IN	1	
JK3902	K1U820B00002	JACK,AV OUT	1	
JK3903	K1U407B00001	JACK,AV OUT	1	
K7401	ERJ3GEY0R00V	1/16W 0	1	
K7504	ERJ3GEY0R00V	1/16W 0	1	
L3001	G0C120JA0019	COIL 12UH	1	
L3002	G0C220JA0019	COIL 22UH	1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009,10	G0C4R7JA0019	COIL 4.7UH	2	
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3017,18	G0C120JA0019	COIL 12UH	2	
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022,23	G0C120JA0019	COIL 12UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7501	ELESE101K	COIL 100UH	1	
L7502	G0C220JA0019	COIL 22UH	1	
LB1501-05	J0JHC0000032	COIL	5	
LB3001	VLP0323A601T	COIL	1	J0JCC0000103
LB3901-04	VLP0323A601T	COIL	4	J0JCC0000103
LB3908-18	VLP0323A601T	COIL	11	J0JCC0000103
LB4907-14	VLP0323A601T	COIL	8	J0JCC0000103
LB7402,03	J0JHC0000032	COIL	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB7408	J0JHC0000032	COIL	1	
LB7508	G0ZZ00001936	COIL	1	
LB9701,02	J0JHC0000032	COIL	2	
LB9703,04	ERJ3GEY0R00V	1/16W 0	2	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7503	K1KA03A00173	CONNECTOR(3P)	1	
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1502	K1KA08A00355	CONNECTOR(8P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
Q3001,02	2SB1218A	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3004	2SB1218A	TRANSISTOR	1	
Q3005	2SD1819A0L	TRANSISTOR	1	
Q3006,07	2SB1218A	TRANSISTOR	2	
Q3008	2SD1819A0L	TRANSISTOR	1	
Q3009	2SB1218A	TRANSISTOR	1	
Q3010	2SD1819A0L	TRANSISTOR	1	
Q3011	2SC393000L	TRANSISTOR	1	
Q3012	2SD1819A0L	TRANSISTOR	1	
Q3015	2SB1218A	TRANSISTOR	1	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SB1218A	TRANSISTOR	1	
Q7501	2SD1994B	TRANSISTOR	1	2SD1994BR1VT
Q7502	2SD0601A	TRANSISTOR	1	2SD0601A0L
Q7509	2SD0874A0L	TRANSISTOR	1	
Q7510,11	2SD0601A	TRANSISTOR	2	2SD0601A0L
QR3001	UN5211	TRANSISTOR	1	UNR5211
QR3002	UN5213TX	TRANSISTOR	1	UNR521300L
QR3004,05	UN5211	TRANSISTOR	2	UNR5211
QR3006-10	UN5213TX	TRANSISTOR	5	UNR521300L
QR3011	UN5113TW	TRANSISTOR	1	
QR4002-07	UN5211	TRANSISTOR	6	UNR5211
QR4010-12	UN5211	TRANSISTOR	3	UNR5211
QR7401	UN5213TX	TRANSISTOR	1	UNR521300L
QR7501	UN5212TX	TRANSISTOR	1	UNR521200L
QR7504	UN5113TW	TRANSISTOR	1	
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	MCR03PZHJ561	1/16W 560	1	
R3002,03	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3004	MCR03PZHJ561	1/16W 560	1	
R3005	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3007	ERJ3GEYJ102V	1/16W 1K	1	
R3008	MCR03PZHJ561	1/16W 560	1	
R3009	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3010	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3011	ERJ3GEYJ102V	1/16W 1K	1	
R3012-14	ERJ3GEY0R00V	1/16W 0	3	
R3015,16	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3017,18	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3021	ERJ3GEYJ472V	1/16W 4.7K	1	
R3022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3024	ERJ3GEYJ102V	1/16W 1K	1	
R3025	MCR03PZHJ561	1/16W 560	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEYJ105V	1/16W 1M	1	
R3028	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3029	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3030	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3032,33	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3039	ERJ3GEYJ221V	1/16W 220	1	
R3040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3041	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3042	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3043	ERJ3GEYJ102V	1/16W 1K	1	
R3044,45	ERJ3GEYJ151V	1/16W 150	2	
R3046	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3048	ERJ3GEYJ102V	1/16W 1K	1	
R3049,50	ERJ3GEYJ151V	1/16W 150	2	
R3051	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/16W 560	1	
R3053	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3054	ERJ3GEYJ104	1/16W 100K	1	
R3055	ERJ3GEYJ102V	1/16W 1K	1	
R3056	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3057	ERJ3GEYJ471V	1/16W 470	1	
R3058	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3060	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3061	ERJ3GEYJ152V	1/16W 1.5K	1	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3GEY0R00V	1/16W 0	1	
R3064	ERJ3GEYJ102V	1/16W 1K	1	
R3065,66	ERJ3GEY0R00V	1/16W 0	2	
R3067	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3068	ERJ3GEY0R00V	1/16W 0	1	
R3070,71	ERJ3GEY0R00V	1/16W 0	2	
R3072	ERJ3GEYJ102V	1/16W 1K	1	
R3073,74	ERJ3GEYJ221V	1/16W 220	2	
R3075,76	ERJ3GEY0R00V	1/16W 0	2	
R3077	ERJ3GEYJ102V	1/16W 1K	1	
R3080	ERJ3GEY0R00V	1/16W 0	1	
R3084,85	ERJ3GEYJ912V	1/16W 9.1K	2	
R3086	ERJ3GEY0R00V	1/16W 0	1	
R3087	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEYJ271V	1/16W 270	1	
R3099	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3100	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3102,03	ERJ3GEYJ472V	1/16W 4.7K	2	
R3106	ERJ3GEYJ102V	1/16W 1K	1	
R3107	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3108	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3901-08	ERJ3GEYJ750	1/16W 75	8	
R3920-24	ERJ3GEYJ750	1/16W 75	5	
R3926,27	ERJ3GEYJ750	1/16W 75	2	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4006	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4008	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4011	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4013	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/16W 0	2	
R4024	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4026	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	D0HB752ZA002	1/16W 7.5K	2	
R4048	ERJ3GEYJ184V	1/16W 180K	1	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	D0HB153ZA002	1/16W 15K	1	
R4057	D0HB153ZA002	1/16W 15K	1	
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4068	ERJ3GEYJ184V	1/16W 180K	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076,77	ERJ3GEYJ821V	1/16W 820	2	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080,81	ERJ3GEYJ821V	1/16W 820	2	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090-93	ERJ3GEYJ221V	1/16W 220	4	
R4901	ERJ3GEY0R00V	1/16W 0	1	
R4903	ERJ3GEY0R00V	1/16W 0	1	
R7403,04	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7405	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7406,07	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7408,09	ERJ3GEY0R00V	1/16W 0	2	
R7418,19	ERG2SJ471E	2W 470	2	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD153	1/16W 15K	1	
R7447	ERJ3RBD102V	1/16W 1K	1	
R7448	ERJ3RBD222V	1/16W 2.2K	1	
R7451	ERJ3RBD133V	1/16W 13K	1	
R7452	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7501	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ472V	1/16W 4.7K	1	
R7506,07	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7509	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7513,14	ERJ3GEYJ221V	1/16W 220	2	
R7515,16	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ3R9	1/4W 3.9	1	
R7521	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104	1/16W 100K	2	
R7524	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7525	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7526,27	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7528	ERJ3GEYJ221V	1/16W 220	1	
R7529-31	ERJ3RBD822	1/16W 8.2K	3	
R7532-34	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7540	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7541-43	ERJ3GEYJ473V	1/16W 47K	3	D0GB473JA002
R7544	ERJ3GEYJ221V	1/16W 220	1	
R7545	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7546	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7547	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7548,49	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7550	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7554,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7556	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7557	ERJ3GEY0R00V	1/16W 0	1	
R7558,59	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7563	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7564	ERJ3GEYJ102V	1/16W 1K	1	
R7565	ERJ3GEYJ104	1/16W 100K	1	
R7566-73	ERJ3GEYJ683V	1/16W 68K	8	D0GB683JA002
R7574	ERJ3GEYJ104	1/16W 100K	1	
R7576-78	ERJ3GEYJ104	1/16W 100K	3	
R7580-82	ERJ3GEYJ104	1/16W 100K	3	
R7583,84	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7586	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7587	ERJ3GEYJ221V	1/16W 220	1	
R7588	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7590	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
TU7401	ENGD6201D	TUNER PACK	1	
W501-08	ERJ3GEY0R00V	1/16W 0	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
W510-20	ERJ3GEY0R00V	1/16W 0	11	
W522-25	ERJ3GEY0R00V	1/16W 0	4	
X3001	H0D800400016	CRYSTAL OSCILLATOR	1	
X7501	H0A327200082	CRYSTAL OSCILLATOR	1	
X7502	H0D419400020	CRYSTAL OSCILLATOR	1	
ZJ7401	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZJ9701	VJR0978	EARTH ANGLE	1	K9ZZ00000424
■	03	REP3496F/REP3496FG		
C3201	EEE0JA220SR	6.3V 22U	1	
C3202	ECJ1VB1C104K	16V 0.1U	1	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	ECJ1VB1C104K	16V 0.1U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEE0JA220SR	6.3V 22U	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEE0JA101SP	6.3V 100U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEE0JA220SR	6.3V 22U	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEE0JA101SP	6.3V 100U	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEE1EA4R7SR	25V 4.7U	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEE0JA470SR	6.3V 47U	1	
C9003	EEE0JA470SR	6.3V 47U	1	
C9004	ECJ1VF1C104Z	16V 0.1U	1	
C9005	EEE0JA470SR	6.3V 47U	1	
C9007	F1J0J106A014	6.3V 10U	1	
C9011	EEE0JA470SR	6.3V 47U	1	
C9013	EEE0JA470SR	6.3V 47U	1	
C9014,15	ECJ1VC1H470J	50V 47P	2	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEE0JA220SR	6.3V 22U	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEE0JA220SR	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEE0JA101SP	6.3V 100U	1	
C50025	ECJ1VF1C104Z	16V 0.1U	1	
C50026,27	EEE1CA100SR	16V 10U	2	
C50028	ECJ1VF1C104Z	16V 0.1U	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201	F1H0J1050018	FILTER	1	
FL3205-13	F1H0J1050018	FILTER	9	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-19	F1H0J1050018	FILTER	11	
FL3421,22	F1H0J1050018	FILTER	2	
FL3425	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL4401	F1H0J1050018	FILTER	1	
FL6001-06	F1H0J1050018	FILTER	6	
FL6009-13	F1H0J1050018	FILTER	5	
FL6701-03	F1H0J1050018	FILTER	3	
FL9004	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
IC3201	C3ABMG000103	IC	1	
IC3202	C1ZBZ0002277	IC	1	
IC3203	MN673744	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3403,04	C3ABQG000007	IC	2	
IC3406	MN85620GL	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002	C3ABRG000016	IC	1	
IC6004	MNZE0500YDR	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6704	REP3496F	IC	1	(P)DIGITAL P.C.B.
IC6704	REP3496FG	IC	1	(PC)DIGITAL P.C.B.
IC9001	C0DBZFE00003	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000063	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000063	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
LB3201-05	J0JHC0000032	COIL	5	
LB3401,02	J0JHC0000032	COIL	2	
LB4402,03	J0JGC0000020	COIL	2	
LB9001	J0JHC0000032	COIL	1	
LB9003	J0JHC0000045	COIL	1	
LB9005	J0JHC0000032	COIL	1	
LB9006	J0JHC0000045	COIL	1	
LB9009	J0JHC0000032	COIL	1	
LB9012	J0JHC0000045	COIL	1	
LB9013,14	J0JHC0000032	COIL	2	
LB9015,16	ERJ3GEY0R00V	1/16W 0	2	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
LB50001	J0JHC0000032	COIL	1	
LB50003	ERJ3GEY0R00V	1/16W 0	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3401,02	K1MN40A00021	CONNECTOR(40P)	2	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
P9001-03	K1KB30A00135	CONNECTOR(30P)	3	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6702-04	2SD0601A	TRANSISTOR	3	2SD0601A0L
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3401	UNR521L00L	TRANSISTOR	1	
QR3402,03	UN5213TX	TRANSISTOR	2	UNR521300L
QR9001	UNR511100L	TRANSISTOR	1	
QR9005	UN5213TX	TRANSISTOR	1	UNR521300L
R3202	ERJ3GEY0R00V	1/16W 0	1	
R3204	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3205	ERJ3GEYJ622V	1/16W 6.2K	1	
R3206	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3226	ERJ3GEY0R00V	1/16W 0	1	
R3232	ERJ3GEYJ220V	1/16W 22	1	
R3233	ERJ3GEY0R00V	1/16W 0	1	
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3401	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3407,08	ERJ3GEYJ820V	1/16W 82	2	
R3409	ERJ3GEYJ102V	1/16W 1K	1	
R3410	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3411	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3412	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3413,14	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3419	ERJ3GEYJ220V	1/16W 22	1	
R3420	ERJ3GEYJ105V	1/16W 1M	1	
R3422-24	ERJ3GEYJ220V	1/16W 22	3	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3426	ERJ3GEYJ220V	1/16W 22	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412-15	ERJ3GEY0R00V	1/16W 0	4	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6006	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6021	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6022	ERJ3GEYJ221V	1/16W 220	1	
R6024	ERJ3GEY0R00V	1/16W 0	1	
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-18	ERJ3GEYJ470V	1/16W 47	10	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723,24	ERJ3GEYJ470V	1/16W 47	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6745	ERJ3GEYJ470V	1/16W 47	1	
R6746	ERJ3GEY0R00V	1/16W 0	1	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6759	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6761	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9012	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007	ERJ3GEYJ220V	1/16W 22	1	
R50008-10	ERJ3GEYJ470V	1/16W 47	3	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD153	1/16W 15K	1	
R50014	ERJ3GEYJ820V	1/16W 82	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50016	ERJ3GEYJ470V	1/16W 47	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEY0R00V	1/16W 0	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
RA3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RA3205-08	D1H83304A024	RESISTOR-RESISTOR	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RA3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RA3213,14	D1H82204A024	RESISTOR-RESISTOR	2	
RA3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RA3419-24	D1H81034A024	RESISTOR-RESISTOR	6	
RA3425,26	D1H82204A024	RESISTOR-RESISTOR	2	
RA3433	D1H82204A024	RESISTOR-RESISTOR	1	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RA3439-41	D1H82204A024	RESISTOR-RESISTOR	3	
RA50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RA50017	D1H81034A024	RESISTOR-RESISTOR	1	
RA50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RA50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H82204A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022	D1H84704A024	RESISTOR-RESISTOR	1	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6030-33	D1H84704A024	RESISTOR-RESISTOR	4	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X3401	H2D400500001	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	04	REP3528DB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VF1C104Z	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
D7002	LNJ201LPQJA	LED	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00005	JACK,L2	1	
K7002	ERJ3GEY0R00V	1/16W 0	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
QR7002,03	UN2214	TRANSISTOR	2	UNR2214
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7006,07	ERJ3GEYJ221V	1/16W 220	2	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7002	K0H1BA000372	SWITCH,HDD	1	
S7003	EVQ11G07K	SWITCH,POWER	1	
■	05	REP3528EA		
D7801	B3ABA0000396	DIODE	1	
D7802	LNJ201LPQJA	LED	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801-03	UN2214	TRANSISTOR	3	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7815	ERJ3RBD152V	1/16W 1.5K	1	
R7821-23	ERDS2FJ221	1/4W 220	3	
S7801	K0L1BA000056	SWITCH,TRAY	1	
S7802	EVQ11G07K	SWITCH,REC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S7803	EVQ11G07K	SWITCH,CH-DOWN	1	
S7804	EVQ11G07K	SWITCH,SKIP-R	1	
S7805	EVQ11G07K	SWITCH,STOP	1	
S7808	EVQ11G07K	SWITCH,CH-UP	1	
S7809	EVQ11G07K	SWITCH,MODE	1	
S7810	EVQ11G07K	SWITCH,EARSE	1	
S7811	EVQ11G07K	SWITCH,TIME-WARP	1	
S7812	EVQ11G07K	SWITCH,PLAY	1	
S7815	EVQ11G07K	SWITCH,SKIP-F	1	
S7816	EVQ11G07K	SWITCH,OPEN/CLOSE	1	
S7817	K0H1BA000372	SWITCH,DVD	1	
■	06	REP3542A		
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	07	ETXMM447A4G		
C001	KH101K	100P	1	⚠
C002	KH222M	2200P	1	⚠
C003	ECQU2A104ML	0.1	1	⚠
C004	ECQU2A224ML	0.22	1	⚠
C005	KH101K	100P	1	⚠
C006,07	KH222M	2200P	2	⚠
C008	KH102M	1000P	1	⚠
C009	KMM2E121	250V 120	1	
C010-12	MBB105K1	16V 1	3	
C013	ECJ2VC1H102J	50V 1000P	1	
C014	ECUV1H681JCX	50V 680P	1	ECJ2VC1H681J
C016	CD152M	1500P	1	⚠
C017	ECJ2VB1H103K	50V 0.01	1	
C018	MBB105K1	16V 1	1	
C019	MBB104K5	50V 0.1	1	
C020	RR3AD471K	1KV 470P	1	
C022	KY1V560	35V 56	1	
C023	DE1SL151J	1KV 150P	1	
C102,03	ECJ2VC1H102J	50V 1000P	2	
C104	KMG1H2R2	50V 2.2	1	
C106	KY1A122	10V 1200	1	
C107	ECA1AHG102	10V 1000	1	
C109	ECA1EHG102	25V 1000	1	
C110	KY1C102L	16V 1000	1	
C112	ECA1AHG102	10V 1000	1	
C114,15	MBB105K1	16V 1	2	
C116	ECQB1H102JF	50V 1000P	1	
C118	MBB104K2	25V 0.1	1	
C119	ECQB1H333JF	50V 0.033	1	
C120	MBB104K2	25V 0.1	1	
C121	KY1A471	10V 470	1	
C122	KMG1E470	25V 47	1	

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C123	KY0J152	6.3V 1500	1	
C124	TBB224K2	25V 0.22	1	
C125	KY1A221	10V 220	1	
C126	KY1A471	10V 470	1	
C127	KMG1V470	35V 47	1	
C128	MBB104K2	25V 0.1	1	
C129	MBC101K2D	200V 100P	1	
C130	ECQB1H102JF	50V 1000P	1	
C131	KMG1H4R7	50V 4.7	1	
C140	KY1C471	16V 470	1	
C301	ECJ2VC1H102J	50V 1000P	1	
C302	MBB104K2	25V 0.1	1	
C304	ECJ2XB1H333K	50V 0.033	1	
C306	MBB105K1	16V 1	1	
C307	MBB104K2	25V 0.1	1	
C308	MBB105K1	16V 1	1	
C309-11	MBB104K2	25V 0.1	3	
C312-15	ECJ2XB1H333K	50V 0.033	4	
C316	TBB224K2	25V 0.22	1	
D001	D2SBA60	DIODE	1	⚠
D002	MA111TX	DIODE	1	MA2J11100L
D004	MA111TX	DIODE	1	MA2J11100L
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	ERA91-02	DIODE	1	B0AAGM000001
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	BRF1560	DIODE	1	
D104	RK36	DIODE	1	
D105,06	RK46	DIODE	2	B0JAPG000009
D107,08	MA165TA5	DIODE	2	MA2C16500E
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	MA111TX	DIODE	2	MA2J11100L
D115	GPP20J	DIODE	1	
D116	RK39	DIODE	1	
D117,18	MA111TX	DIODE	2	MA2J11100L
D119	GPP20J	DIODE	1	
D120	RN2Z	DIODE	1	
D301-05	MA111TX	DIODE	5	MA2J11100L
F001	SB125V-3.15	FUSE	1	⚠
F101	19396-2.5A	FUSE	1	⚠
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC103	NJM431U	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠
L001,02	ELF15N005A	COIL	2	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L003	LAV35VB150K	COIL	1	
L004,05	EXCELDR35	COIL	2	
L101	EXCELSA24	COIL	1	
L103	EXCELSA24	COIL	1	
L105	EXCELDR35	COIL	1	
L106	LHLZ1R5M	COIL	1	
L107	EXCELDR35	COIL	1	
L108	LHLZ2R2M	COIL	1	
L110	LH8TB100K	COIL	1	
L111	EXCELDR35	COIL	1	
L112	LHLZ4R7M	COIL	1	
L114	LHLZ1R5M	COIL	1	
L115	EXCELSA35	COIL	1	
L117	LHLZ1R5M	COIL	1	
L140	LH8TB100K	COIL	1	
P001	M2024	AC INLET	1	⚠
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS101	B4B-EH-A	CONNECTOR	1	
PS102	TWGP15XA1	CONNECTOR	1	
PS103	127602110K	CONNECTOR	1	
PS105	TWGP19XA1	CONNECTOR	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2543	TRANSISTOR	1	⚠
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q103	UPA1717G	TRANSISTOR	1	
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766A	TRANSISTOR	1	2SB0766A
Q109,10	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q111	2SB709A	TRANSISTOR	1	2SB0709A
Q112	2SD965	TRANSISTOR	1	
Q113	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A
Q304	2SD2000	TRANSISTOR	1	
Q305	2SB1218A	TRANSISTOR	1	
Q306	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q309	2SB709A	TRANSISTOR	1	2SB0709A
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	1	
R003	ERDS1FJ223	0.5W 22K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R005	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1502	0.1W 15K	1	
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F1001	0.1W 1K	1	
R012	ER0S2TKF1000	0.25W 100	1	
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J472	0.1W 4.7K	1	
R024	CR12JR33	0.5W 0.33	1	
R027,28	ERJ12YJ513	0.5W 51K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ121P	1W 120	1	
R102	CR10J100	0.1W 10	1	
R104,05	CR10J100	0.1W 10	2	
R106	ERDS2FJ100	0.25W 10	1	
R112	CR10F2321	0.1W 2.32K	1	
R113	CR10J471	0.1W 470	1	
R115-19	CR10JR16	0.1W 0.16	5	
R120	CR10J6R8	0.1W 6.8	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4420	0.25W 442	1	
R123	ERJ6GEYG821	0.1W 820	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	
R128	CR10J561	0.1W 560	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R133,34	CR10J682	0.1W 6.8K	2	
R135	ER0S2TKF1430	0.25W 143	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ821	0.5W 820	1	
R141	CR10J822	0.1W 8.2K	1	
R142	ERJ6GEYG821	0.1W 820	1	
R143	CR10J103	0.1W 10K	1	
R144	CR10J272	0.1W 2.7K	1	
R145	CR10J221	0.1W 220	1	
R146,47	CR10J103	0.1W 10K	2	
R148-52	CR10JR16	0.1W 0.16	5	
R153	CR10J100	0.1W 10	1	
R154,55	CR10J103	0.1W 10K	2	
R156,57	CR10F2211	0.1W 2.21K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R159	ERDS2FJ470	0.25W 47	1	
R160	CR10J101	0.1W 100	1	
R161	CR10J103	0.1W 10K	1	
R162,63	CR10J100	0.1W 10	2	
R164	ERG1SJ330P	1W 33	1	
R165	CR10J103	0.1W 10K	1	
R166	CR10J473	0.1W 47K	1	
R167	CR10J103	0.1W 10K	1	
R168	CR10J683	0.1W 68K	1	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R309	CR10J822	0.1W 8.2K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R313	ERDS1FJ271	0.5W 270	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F6191	0.1W 6.19K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R342	ERJ6GEYG271	0.1W 270	1	
R343	CR10J102	0.1W 1K	1	
R344,45	CR10J103	0.1W 10K	2	
T001	ETB28BF1N6AD	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
TH101	NC21F104J	THERMISTOR	1	

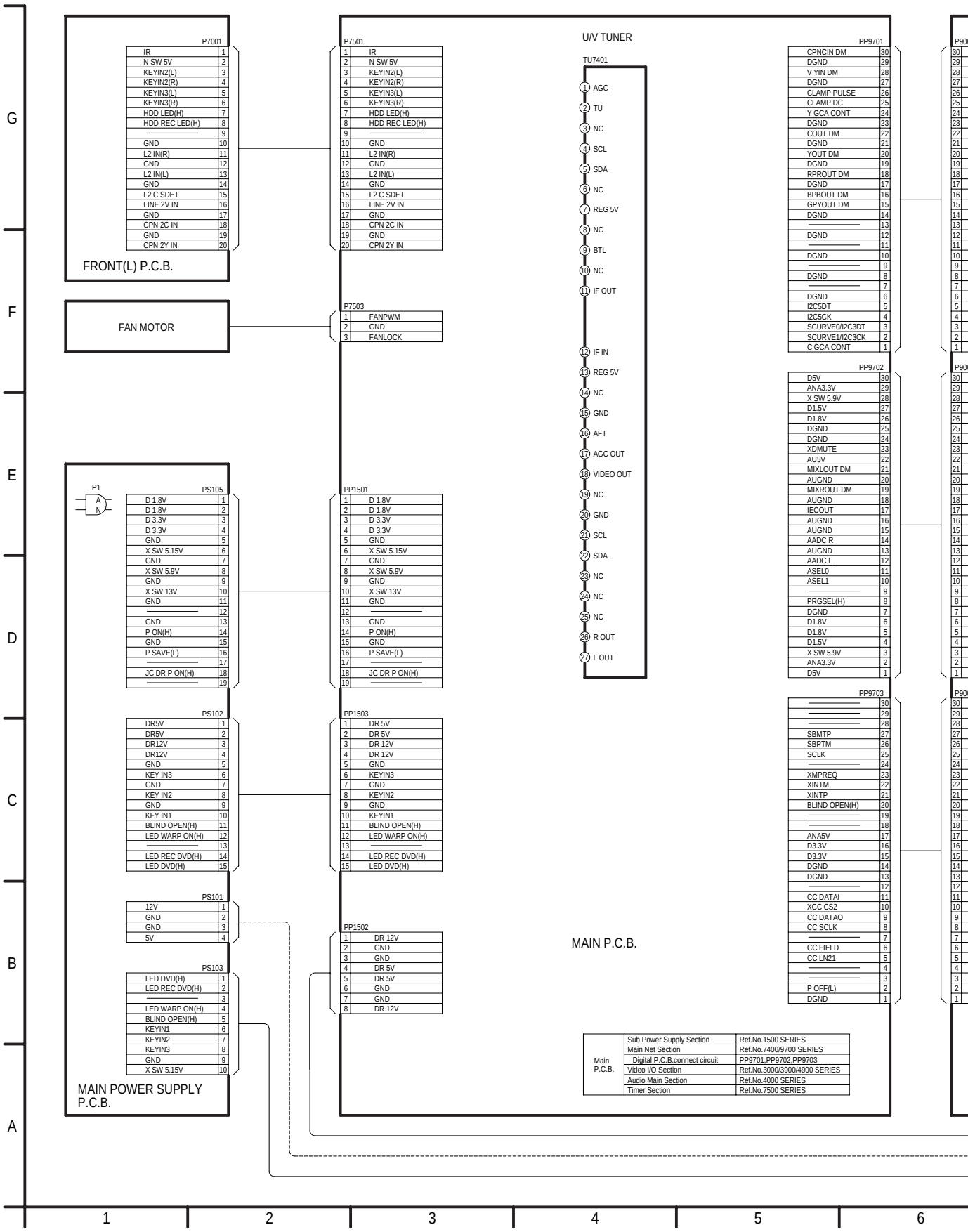
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
VR102	EVMEASA01B52	V.R.	1	
Z002	ERZVA7D471	VARISTOR	1	⚠
ZD001	RD56EB	DIODE	1	
ZD002	MAZ82700ML	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD103	MA4075N	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
■	09	JIG TOOLS		
	RFKZ0125	EXTENSION CABLE (40P)	1	RAM DRIVE-DIGITAL P.C.B.
	RFKZ0164	EXTENSION CABLE (30P~3)	1	MAIN-DIGITAL P.C.B.
	RFKZ0165	EXTENSION CABLE (20P)	1	FRONT(L)-MAIN P.C.B.
	RFKZ0166	EXTENSION CABLE (10P)	1	FRONT(R-POWER SUPPLY P.C.B.
	RFKZ0168	EXTENSION CABLE (3P)	1	FAN MOTOR
	RFKZ0169	EXTENSION CABLE (4P)	1	HDD-POWER SUPPLY P.C.B.
	RFKZ0170	EXTENSION CABLE (19P)	1	MAIN-POWER SUPPLY P.C.B.
	RFKZ0171	EXTENSION CABLE (15P)	1	MAIN-POWER SUPPLY P.C.B.

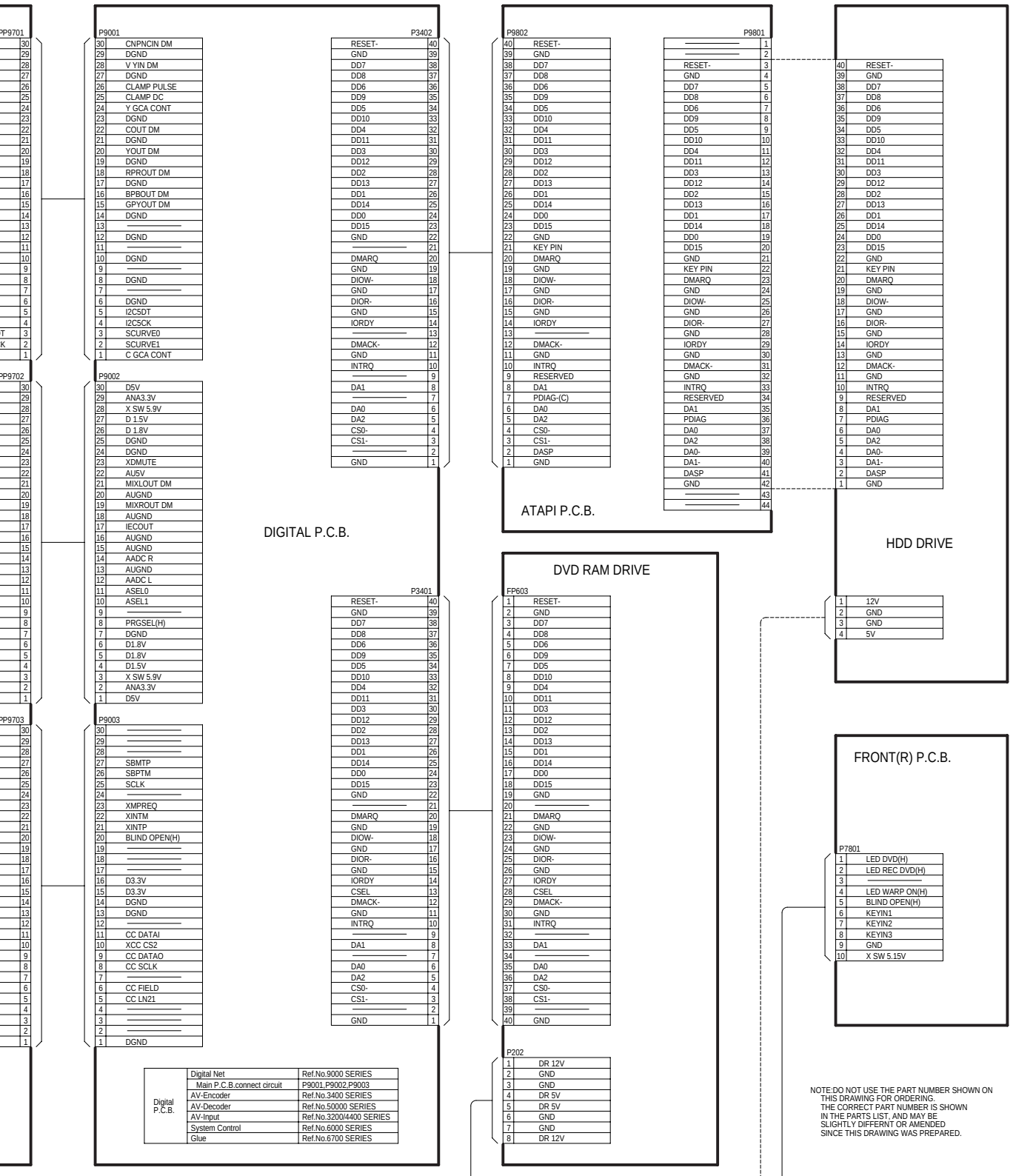
18. Schematic Diagram for printing with A4 size

Ref No.	IC1									IC102				IC103						
MODE	1	2	3	4	5	6	7	8		K	A	R		K	A	R				
REC	2.2	2.5	0.1	1.9	0	9.7	18.1	5.0		3.8	0	2.5		1.9	0	2.5				
PLAY	2.2	2.5	0.1	2.0	0	9.6	17.9	5.0		3.8	0	2.5		1.9	0	2.5				
STOP	2.2	2.5	0.1	1.9	0	9.6	17.9	5.0		3.8	0	2.5		1.9	0	2.5				
Ref No.	IC301									IC302										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	13.6	1.6	1.7	-0.1	1.1	1.1	2.4	14.5		4.7	1.1	1.1	-0.1	3.0	3.0	13.4	14.5			
PLAY	13.5	1.6	1.7	-0.1	1.1	1.1	2.4	14.5		4.7	1.1	1.1	-0.1	3.0	3.0	13.4	14.5			
STOP	13.5	1.6	1.7	-0.1	1.1	1.1	2.4	14.3		4.7	1.1	1.1	-0.1	3.0	3.0	13.2	14.4			
Ref No.	Q1				Q2					Q3				Q4				Q101		
MODE	E	C	B		E	C	B		S	G	D		E	C	B		E	C	B	
REC	0	0	0.6		0	2.3	0.1		0.1	7.8	220.0		0	2.3	0		5.1	0.4	5.1	
PLAY	0	0	0.6		0	2.2	0.1		0.1	7.6	208.0		0	2.2	0		5.1	0.4	5.1	
STOP	0	0	0.6		0	2.2	0.1		0.1	7.6	213.0		0	2.2	0		5.1	0.4	5.1	
Ref No.	Q102				Q103									Q104				Q105		
MODE	E	C	B		1	2	3	4	5	6	7	8		E	C	B		E	C	B
REC	0	5.1	0.4		14.5	14.5	14.5	7.6	14.5	14.5	14.5	14.5		0	0	0.6		0.6	0.6	2.7
PLAY	0	5.1	0.4		14.5	14.5	14.5	7.6	14.5	14.5	14.5	14.5		0	0	0.6		0.6	0.6	2.7
STOP	0	5.1	0.4		14.5	14.5	14.5	7.6	14.5	14.5	14.5	14.5		0	0	0.6		0.6	0.6	2.7
Ref No.	Q106				Q107									Q108				Q109		
MODE	E	C	B		1	2	3	4	5	6	7	8		E	C	B		E	C	B
REC	14.6	14.6	0		5.1	5.1	5.1	11.9	5.1	5.1	5.1	5.1		14.6	14.6	13.9		-0.1	0	0.6
PLAY	14.5	14.5	0		5.1	5.1	5.1	11.9	5.1	5.1	5.1	5.1		14.5	14.5	13.8		-0.1	0	0.6
STOP	14.5	14.5	0		5.1	5.1	5.1	11.9	5.1	5.1	5.1	5.1		14.5	14.5	13.8		-0.1	0	0.6
Ref No.	Q110				Q111				Q112				Q113				Q301			
MODE	E	C	B		S	G	D		E	C	B		E	C	B		S	G	D	
REC	0	0	0.6		5.1	5.0	4.4		0	5.2	-0.1		0	-0.1	0.6		1.9	6.8	5.0	
PLAY	0	0	0.6		5.1	5.0	4.4		0	5.2	-0.1		0	-0.1	0.6		1.9	6.6	5.1	
STOP	0	0	0.6		5.1	5.0	4.4		0	5.2	-0.1		0	-0.1	0.6		1.9	6.5	5.2	
Ref No.	Q302				Q303				Q304				Q305				Q306			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	6.8	14.6	6.4		6.8	-0.1	6.4		3.4	4.7	4.1		14.6	6.6	14.2		4.1	13.3	4.7	
PLAY	6.7	14.5	6.2		6.7	-0.1	6.3		3.4	4.7	4.1		14.5	6.3	14.1		4.1	13.3	4.7	
STOP	6.6	14.4	6.2		6.6	-0.1	6.1		3.4	4.8	4.1		14.4	6.2	14.1		4.1	13.3	4.7	
Ref No.	Q307				Q308				Q309											
MODE	E	C	B		E	C	B		E	C	B									
REC	-0.1	7.9	0.2		14.6	14.2	14.3		14.6	1.2	14.2									
PLAY	-0.1	8.1	0.1		14.5	14.1	14.2		14.5	1.2	14.2									
STOP	-0.1	8.1	0.1		14.4	14.1	14.1		14.5	1.2	14.1									

14 Schematic Diagram

14.1. Interconnection Schematic Diagram



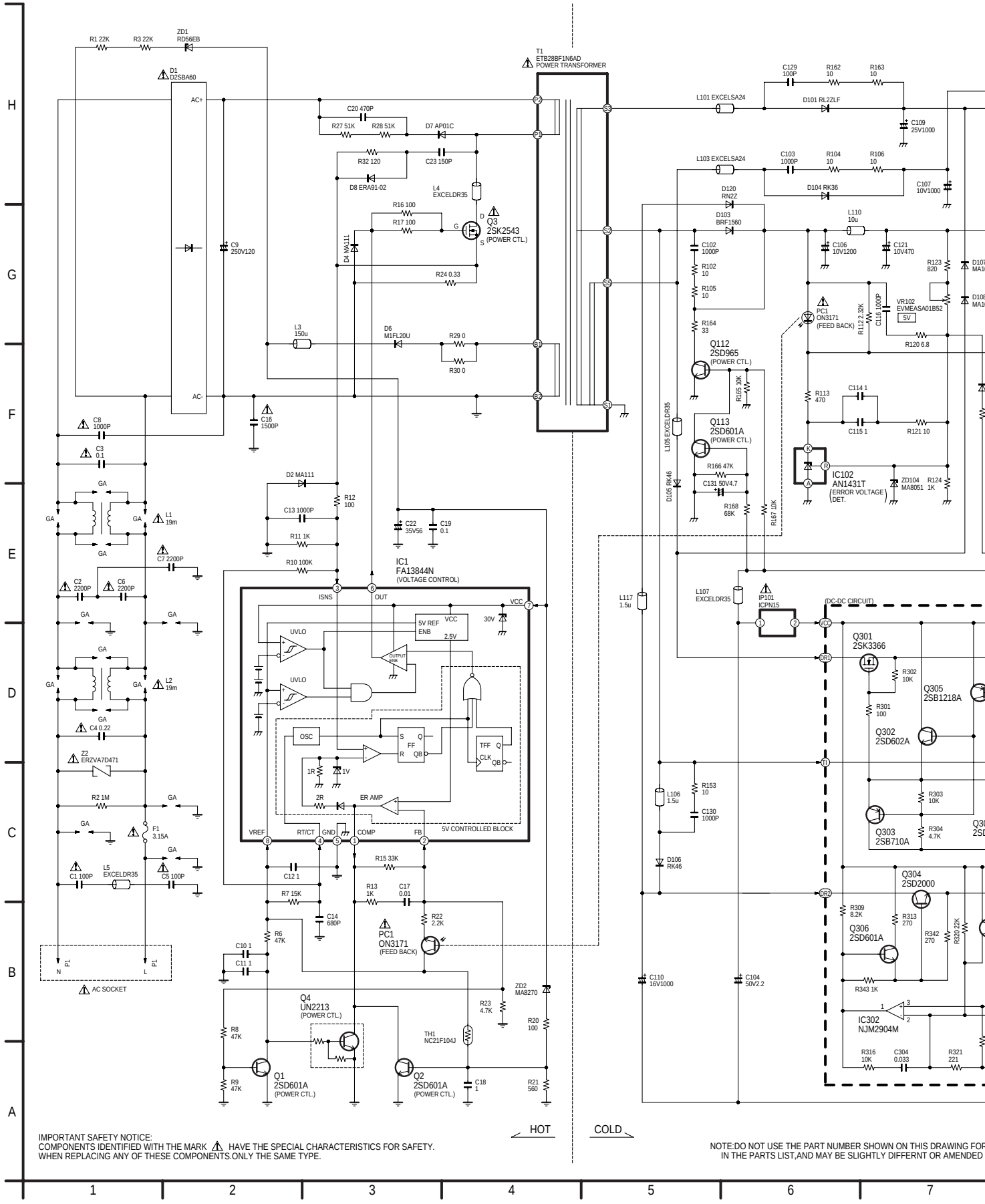


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC Interconnection Schematic Diagram

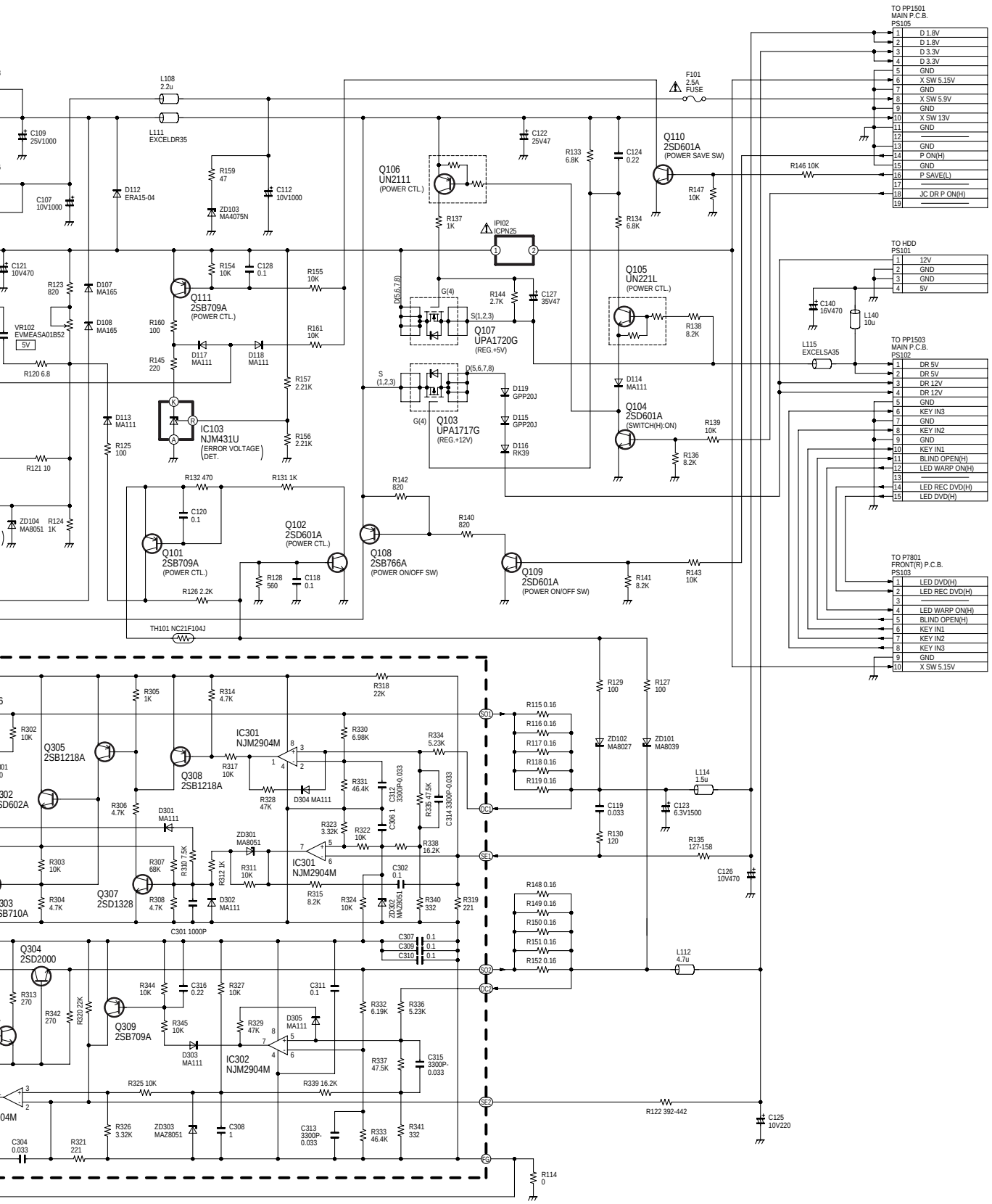
6 7 8 9 10 11

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED

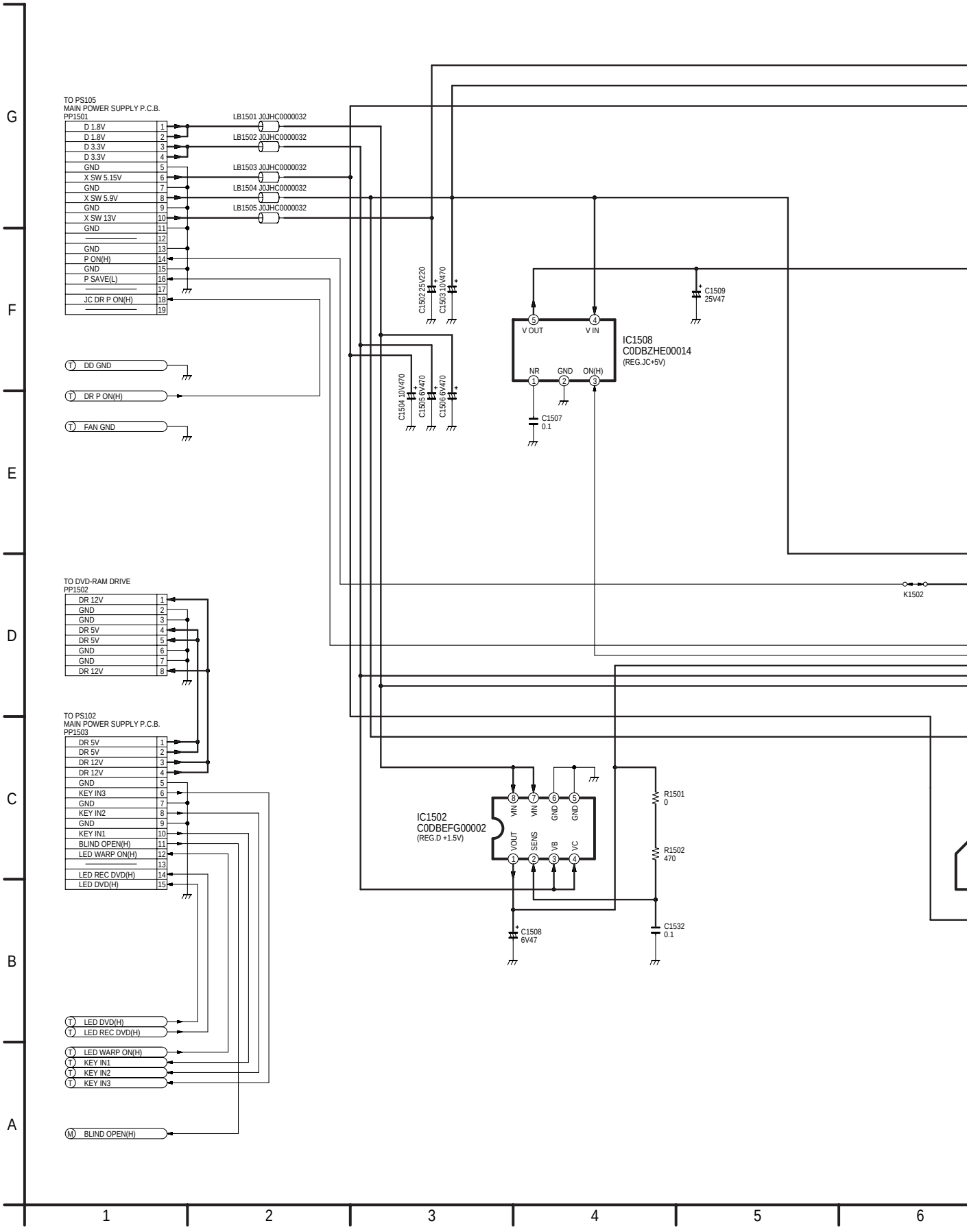


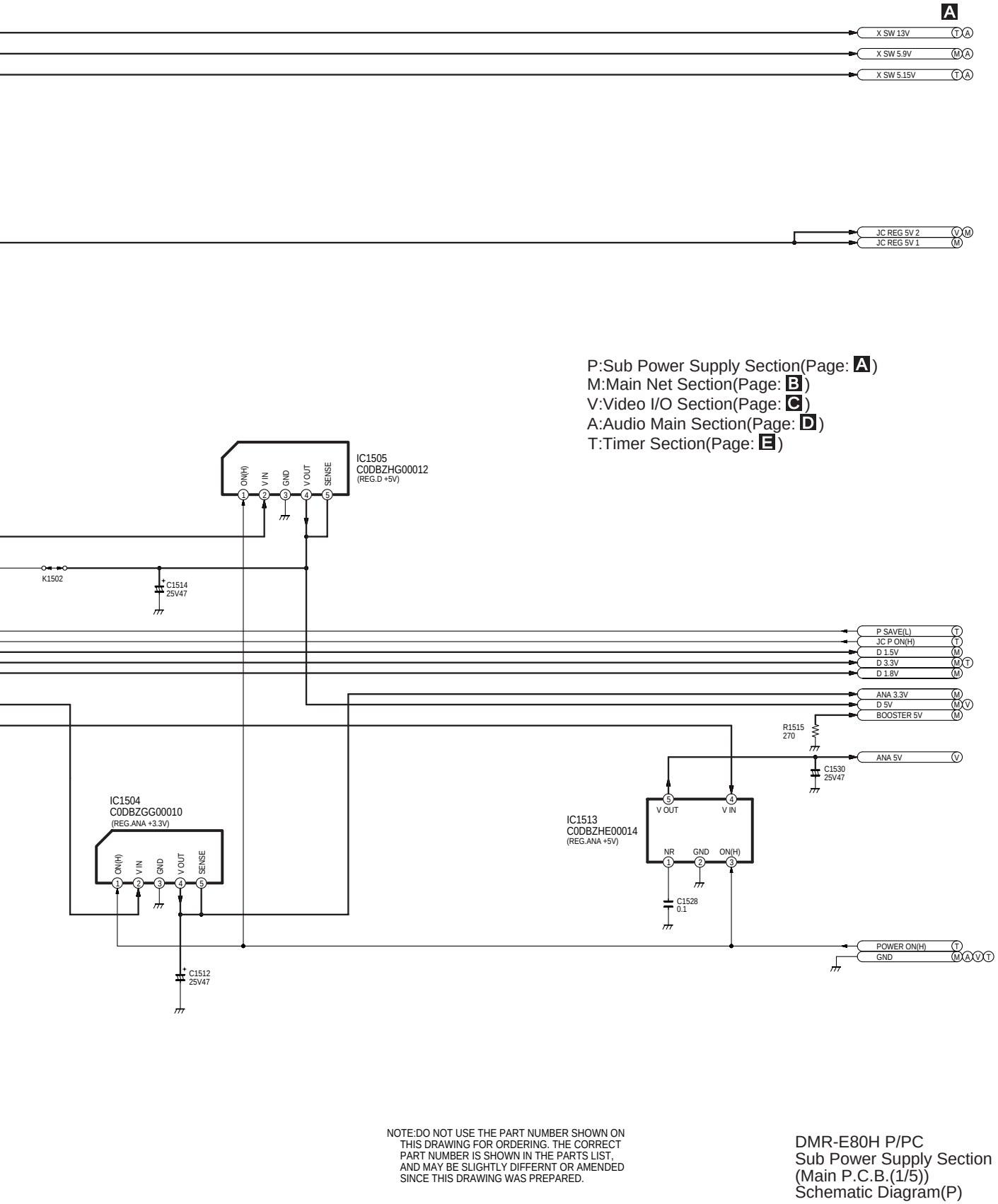
WN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
Y DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Main Power Supply
Schematic Diagram

7	8	9	10	11	12

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)



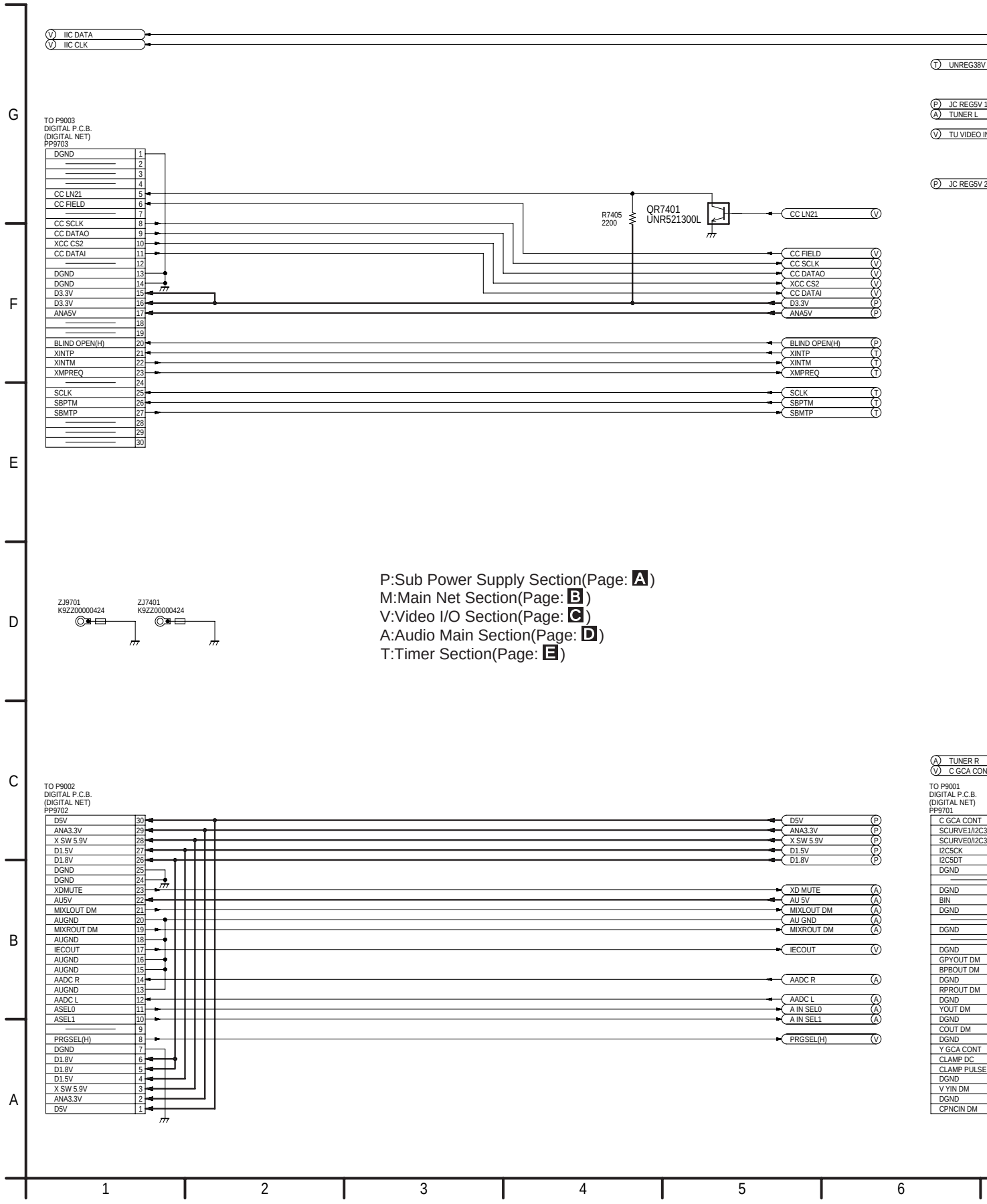


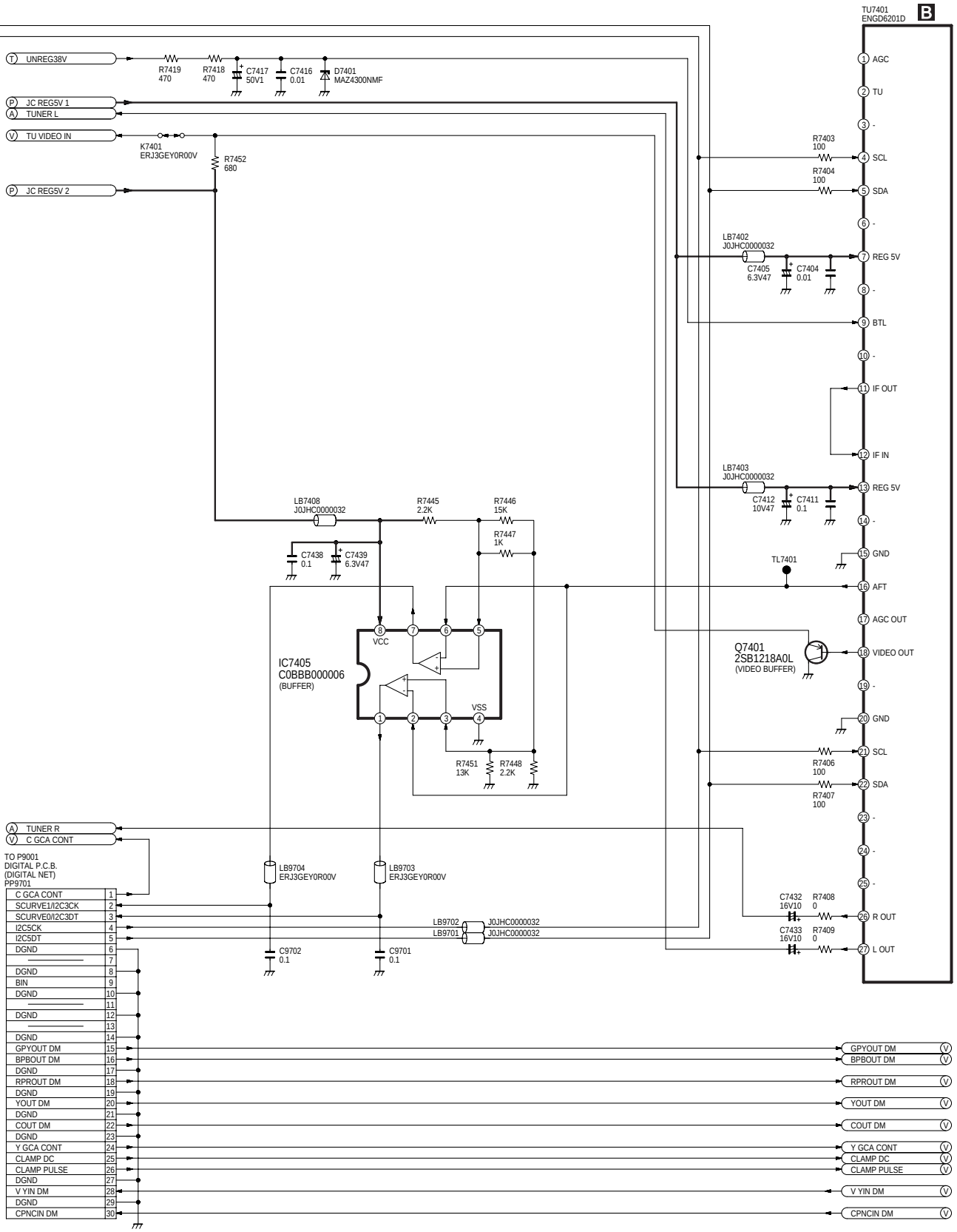
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

6 | 7 | 8 | 9 | 10 | 11

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



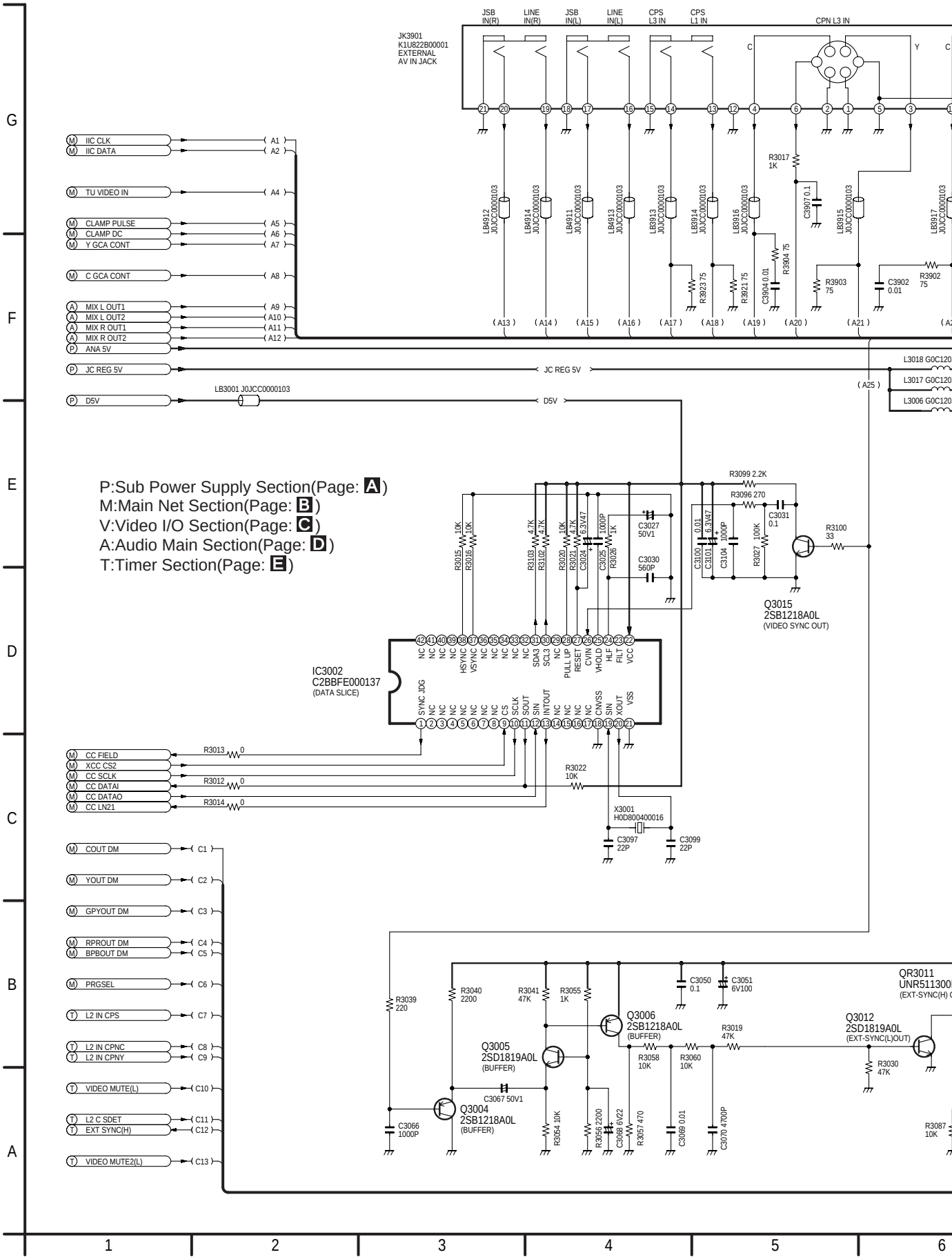


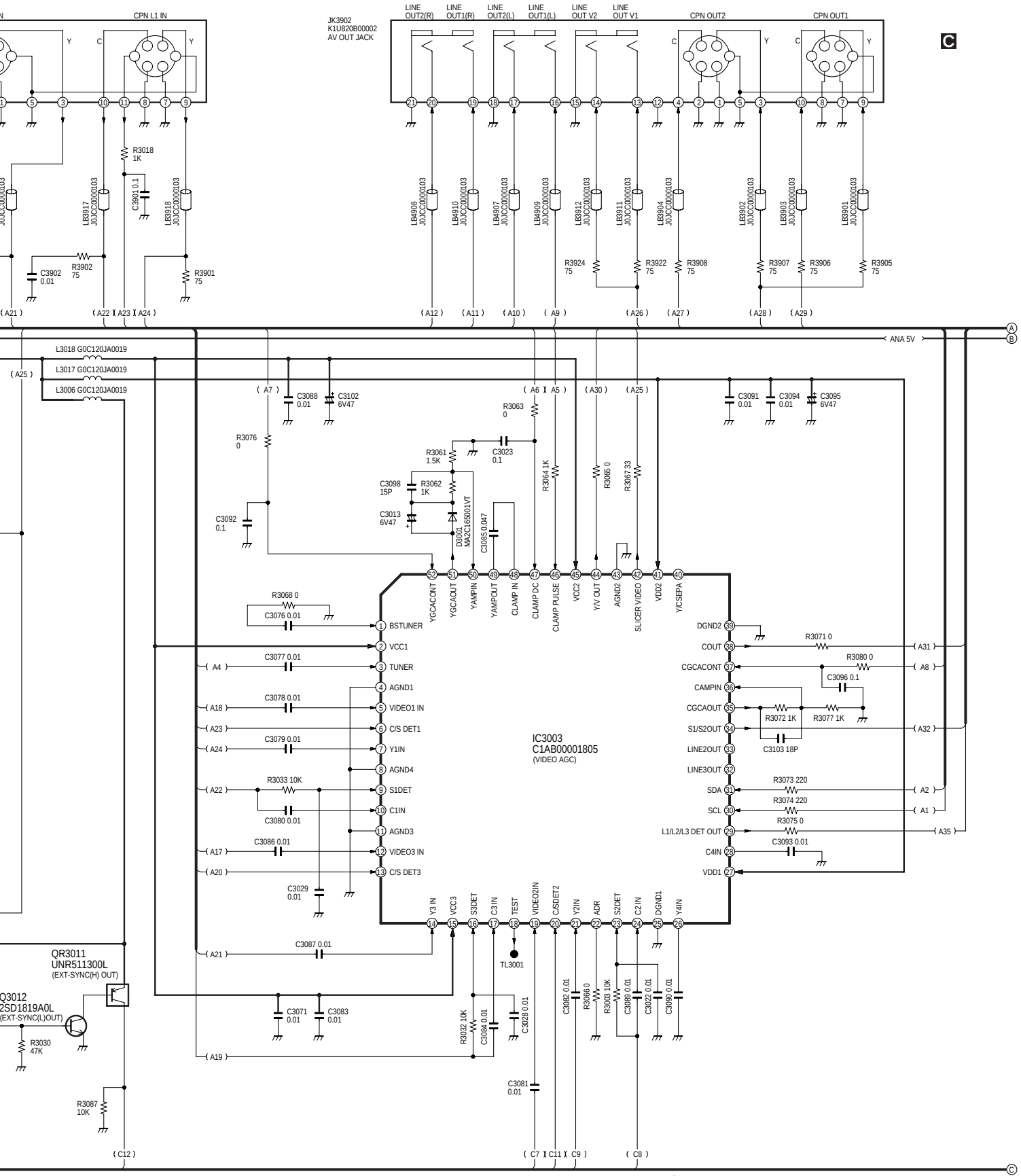
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

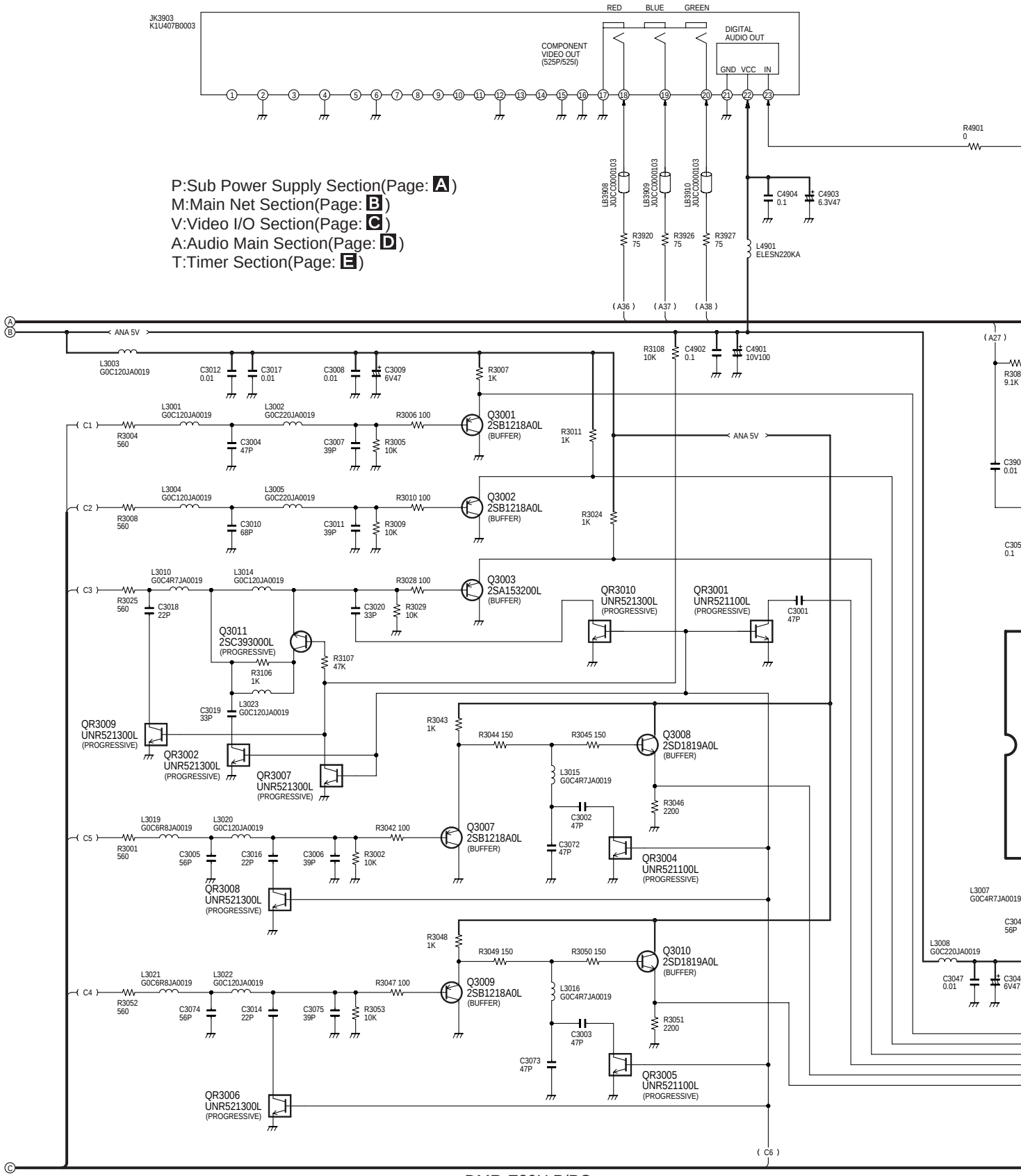
6 | 7 | 8 | 9 | 10 | 11

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)



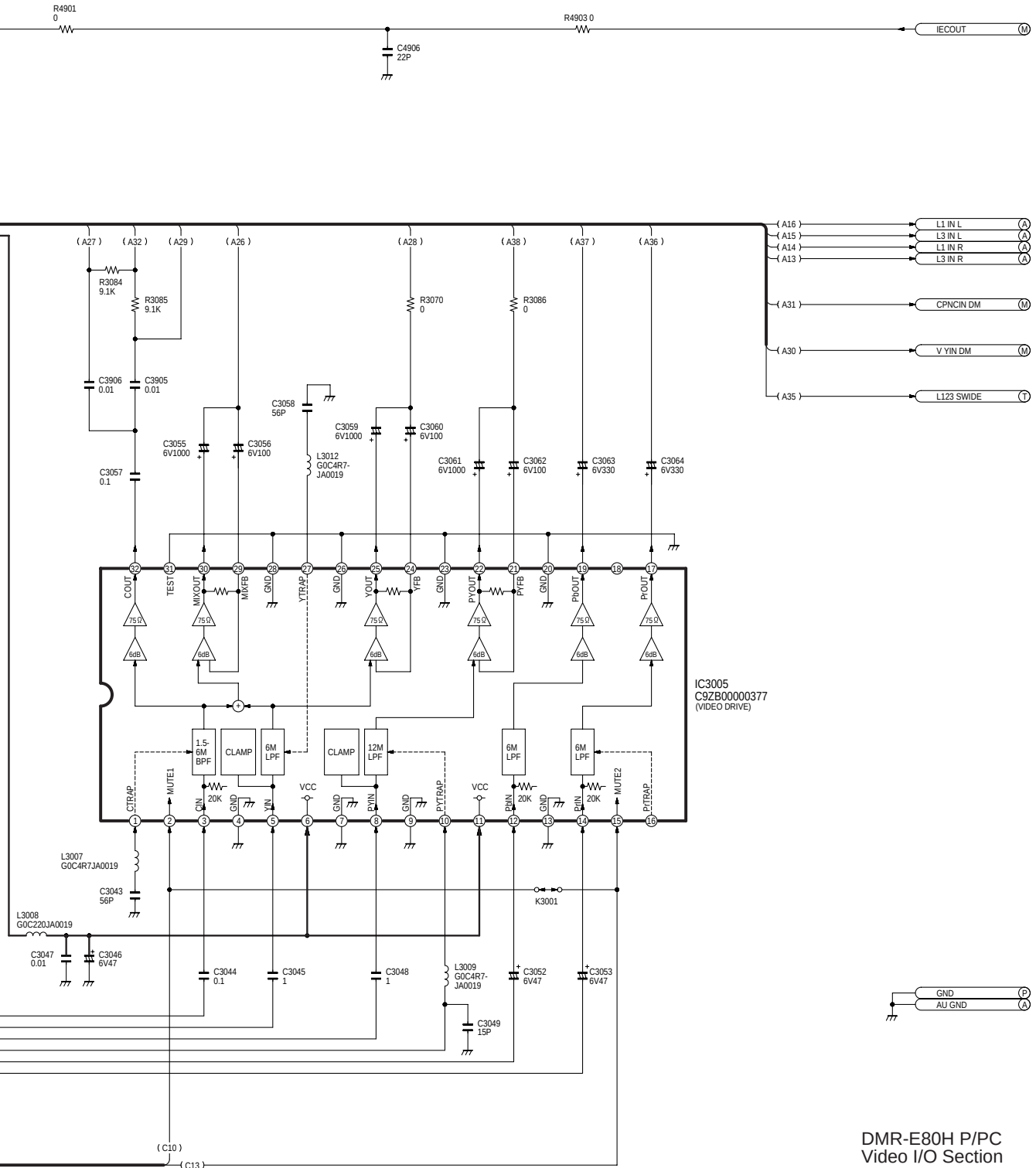


DMR-E80H P/PC
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)



DMR-E80H P/PC
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

C

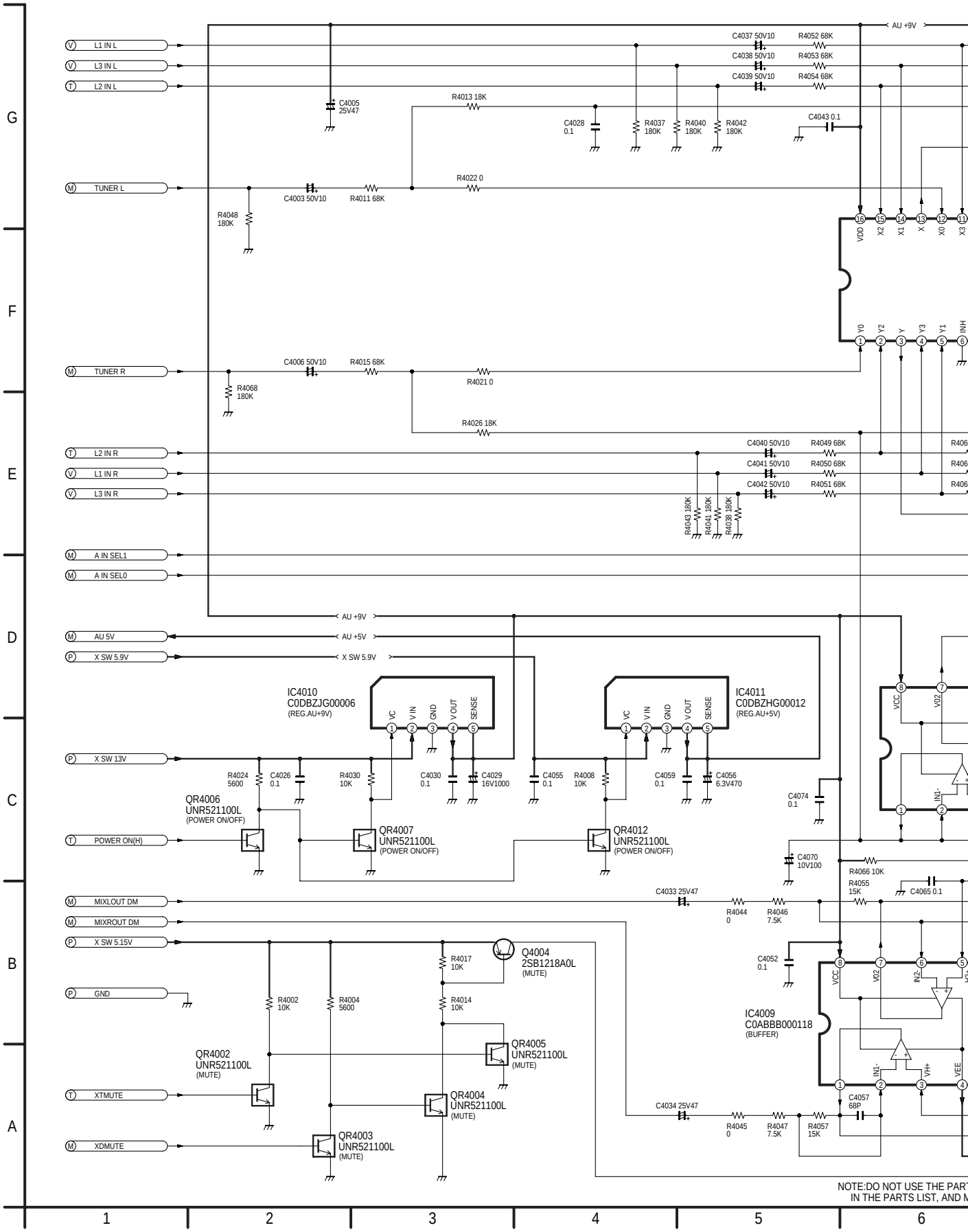


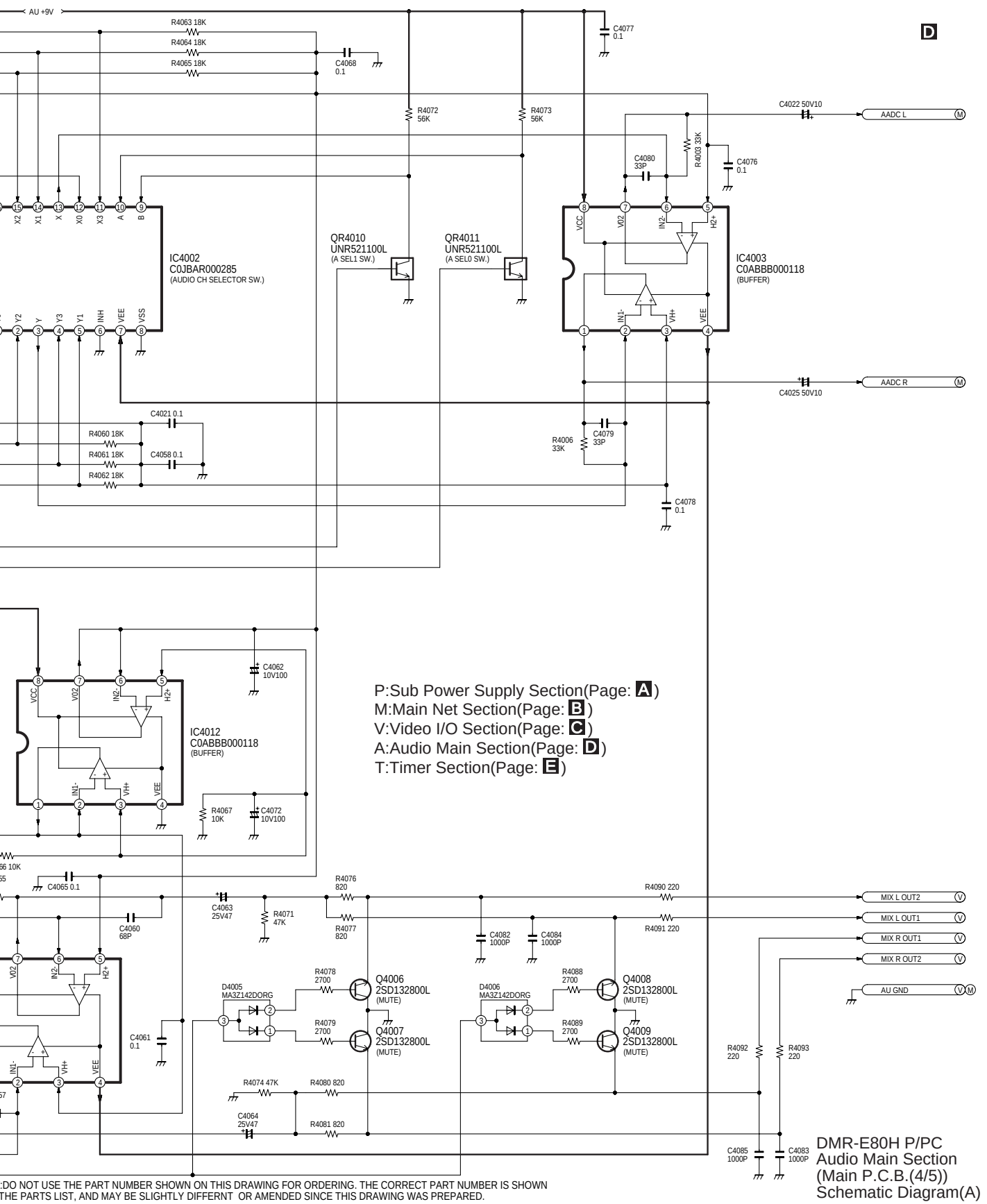
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

18 19 20 21 22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)





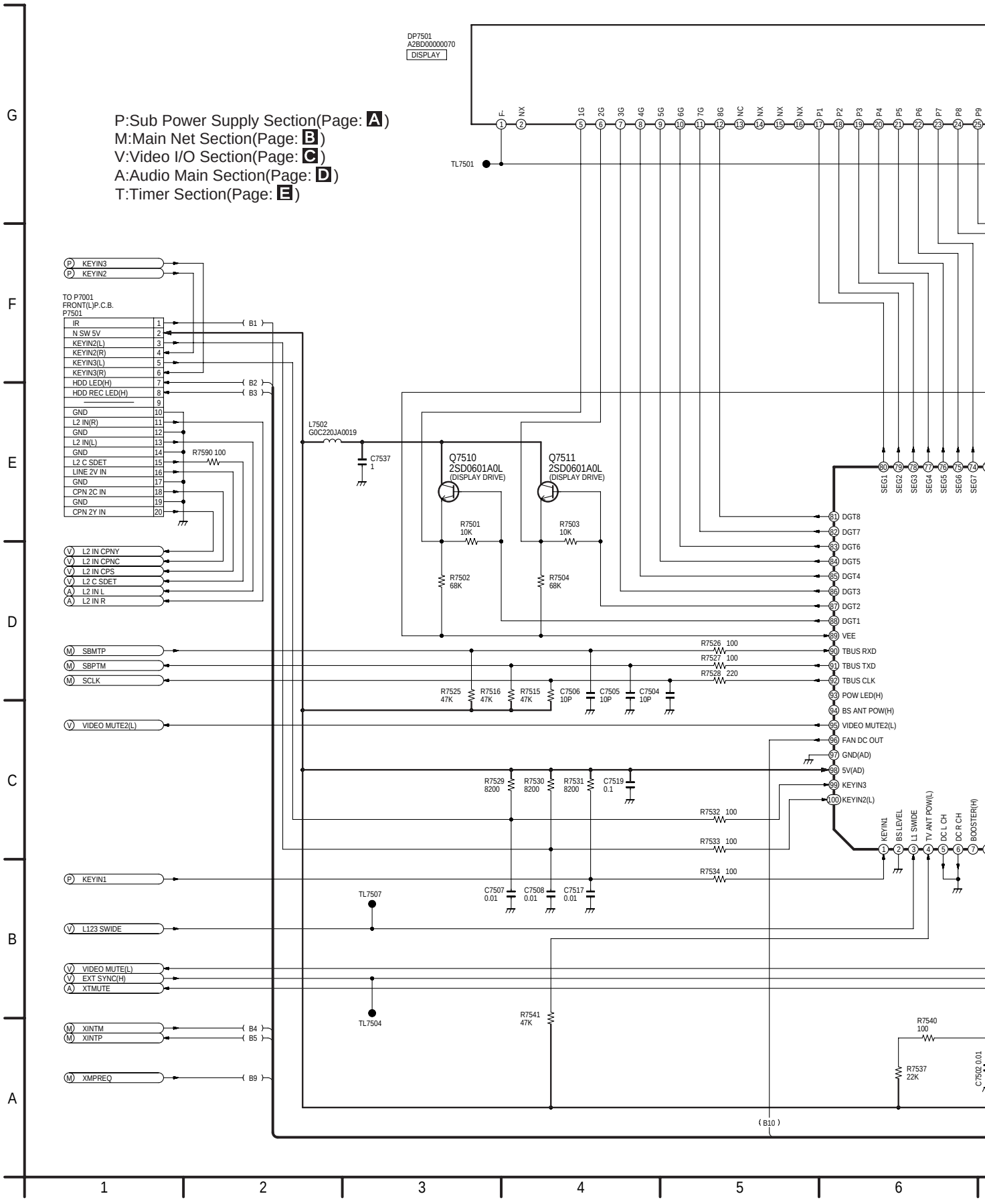
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

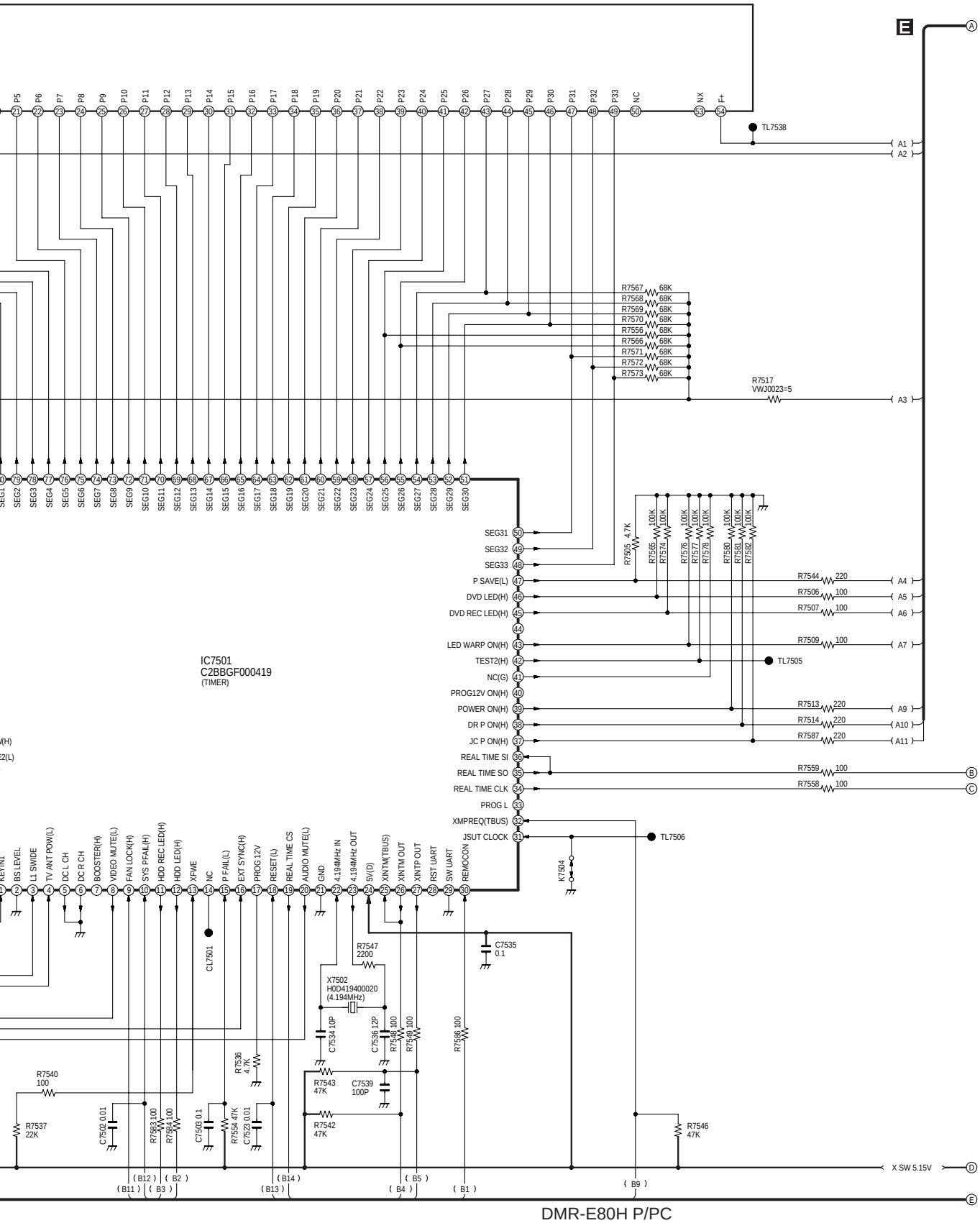
:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Audio Main Section
(Main P.C.B.(4/5))
Schematic Diagram(A)

6 | 7 | 8 | 9 | 10 | 11

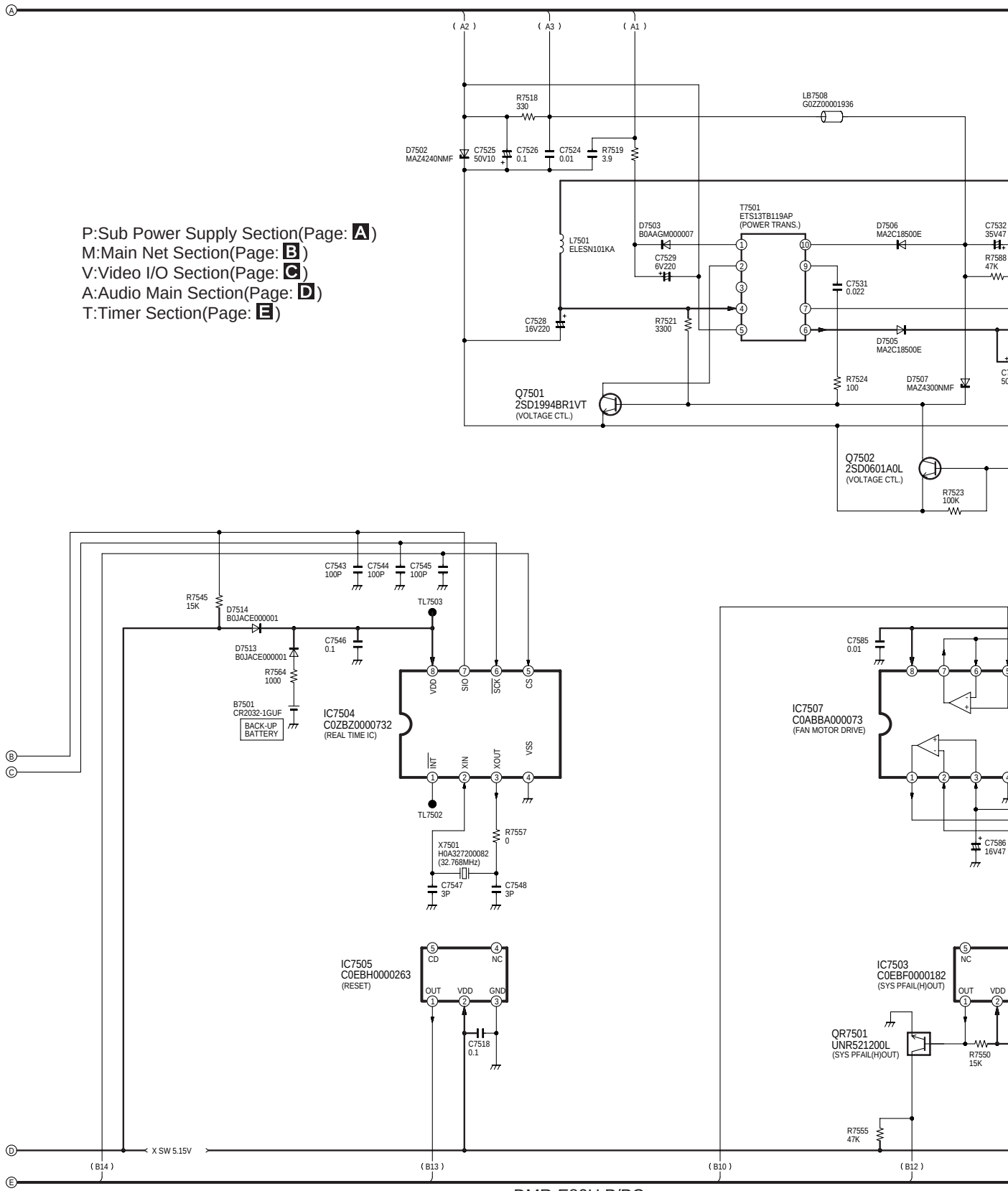
14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)





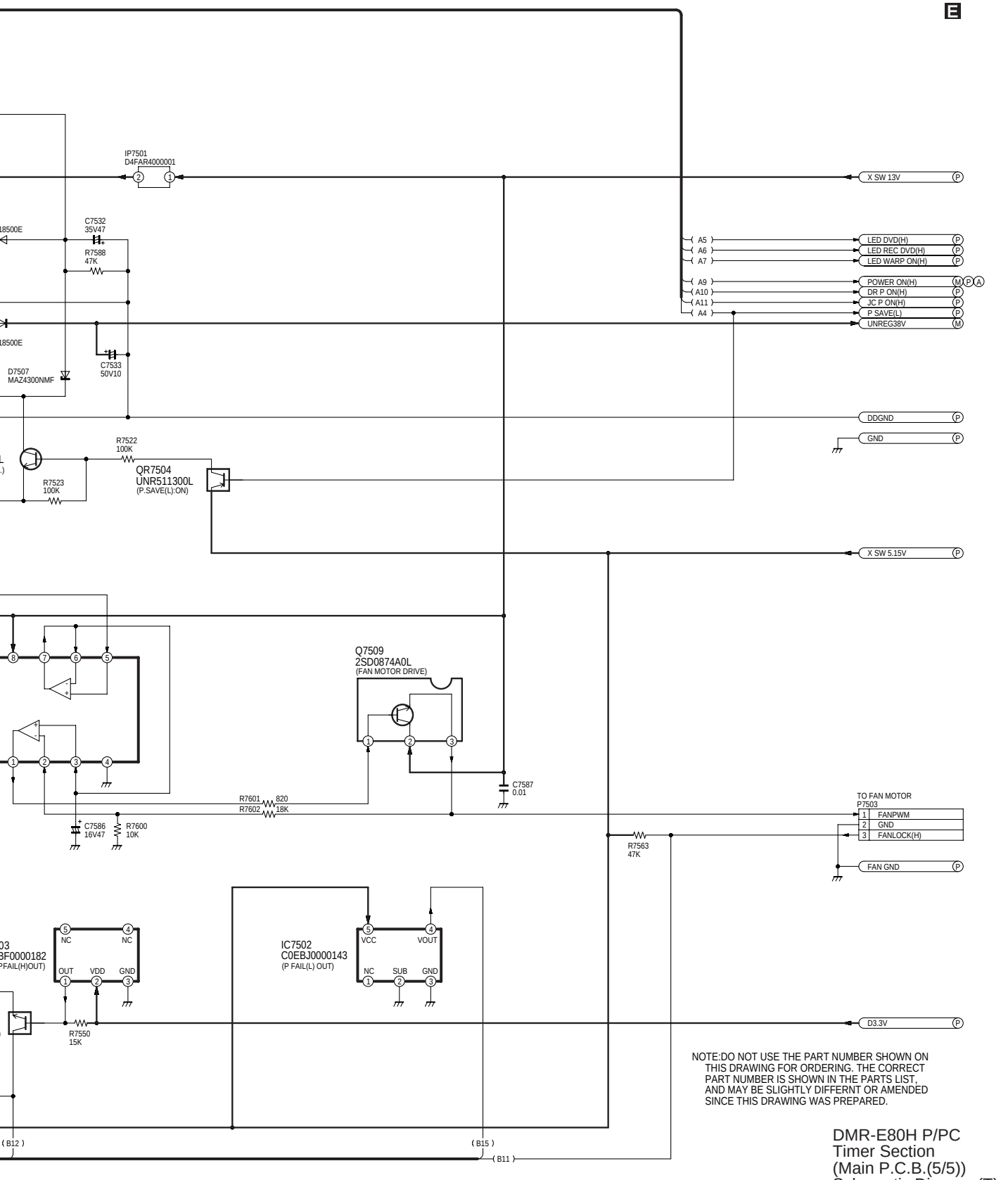
DMR-E80H P/PC
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



DMR-E80H P/PC
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

12 | 13 | 14 | 15 | 16 | 17



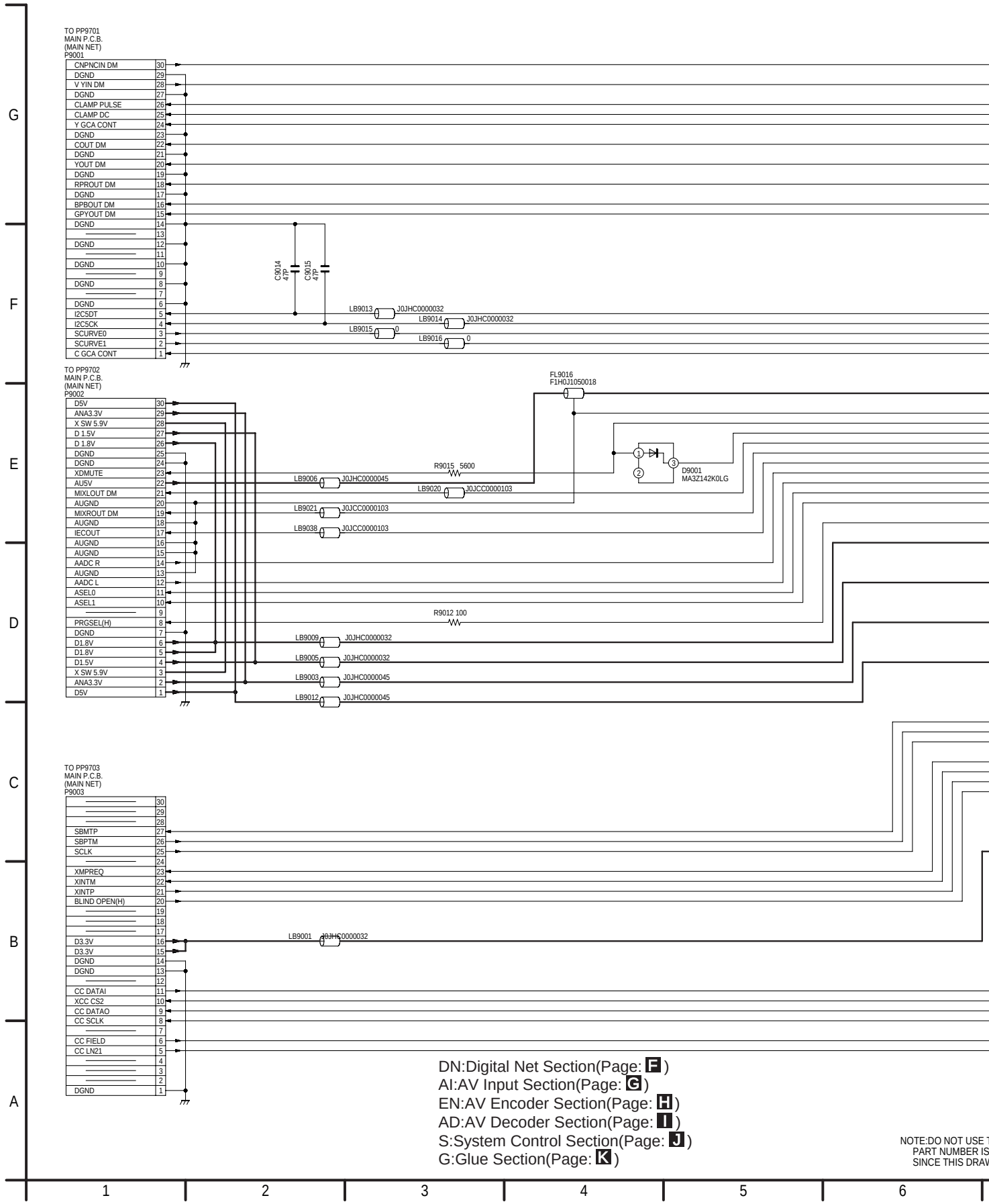
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

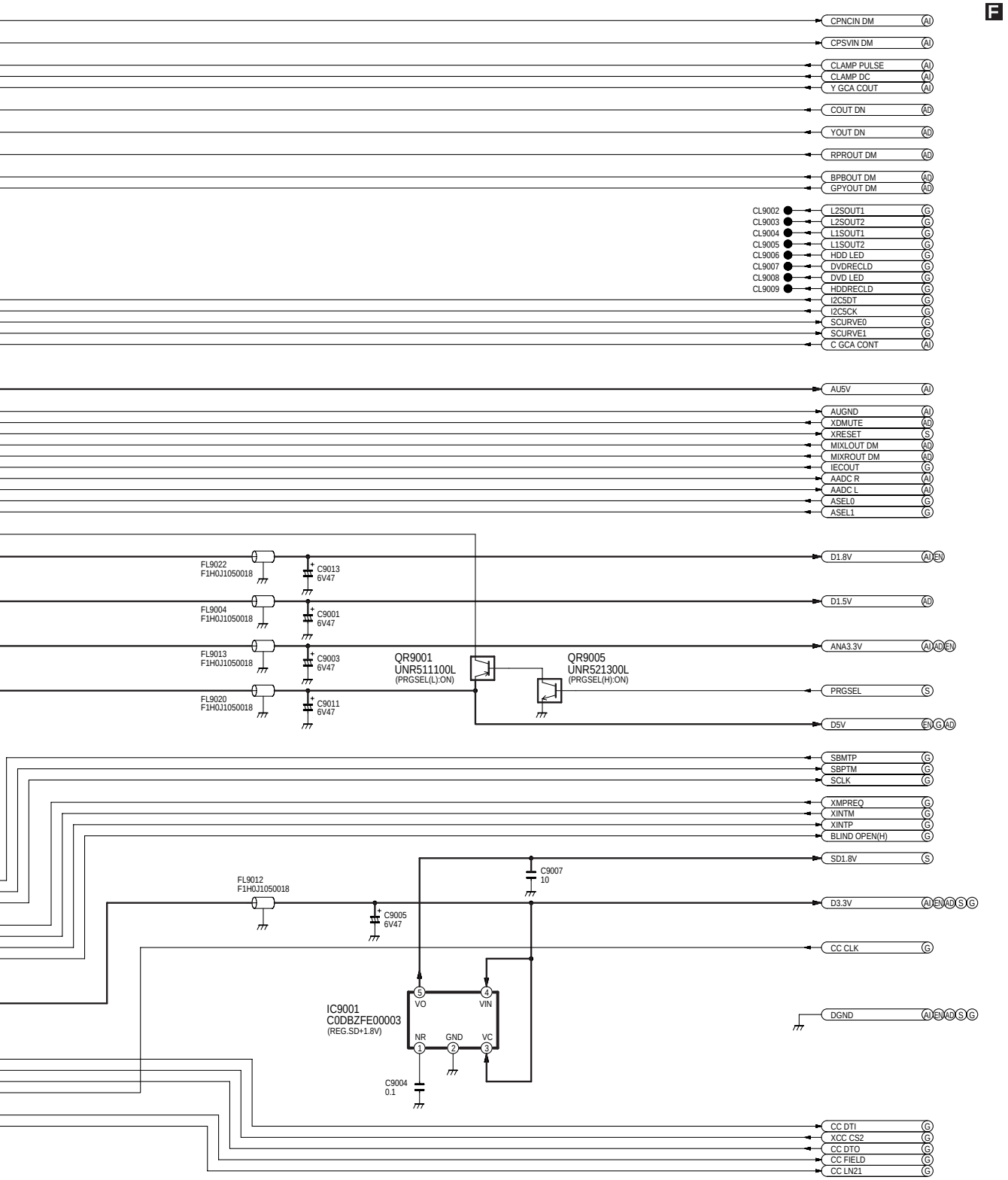
DMR-E80H P/PC
Timer Section
(Main P.C.B.(5/5))
Schematic Diagram(T)

m(T)

17	18	19	20	21	22

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/6)



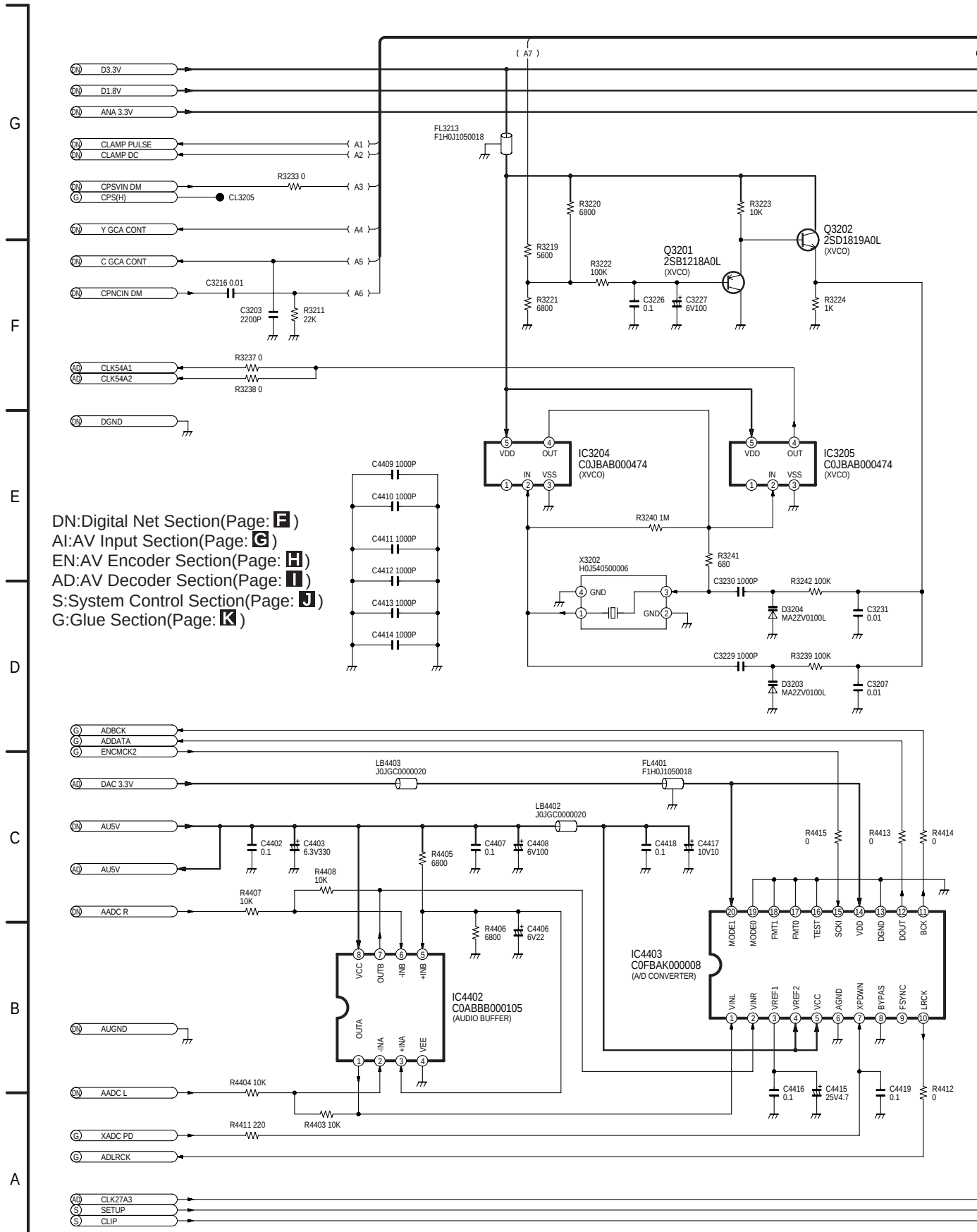


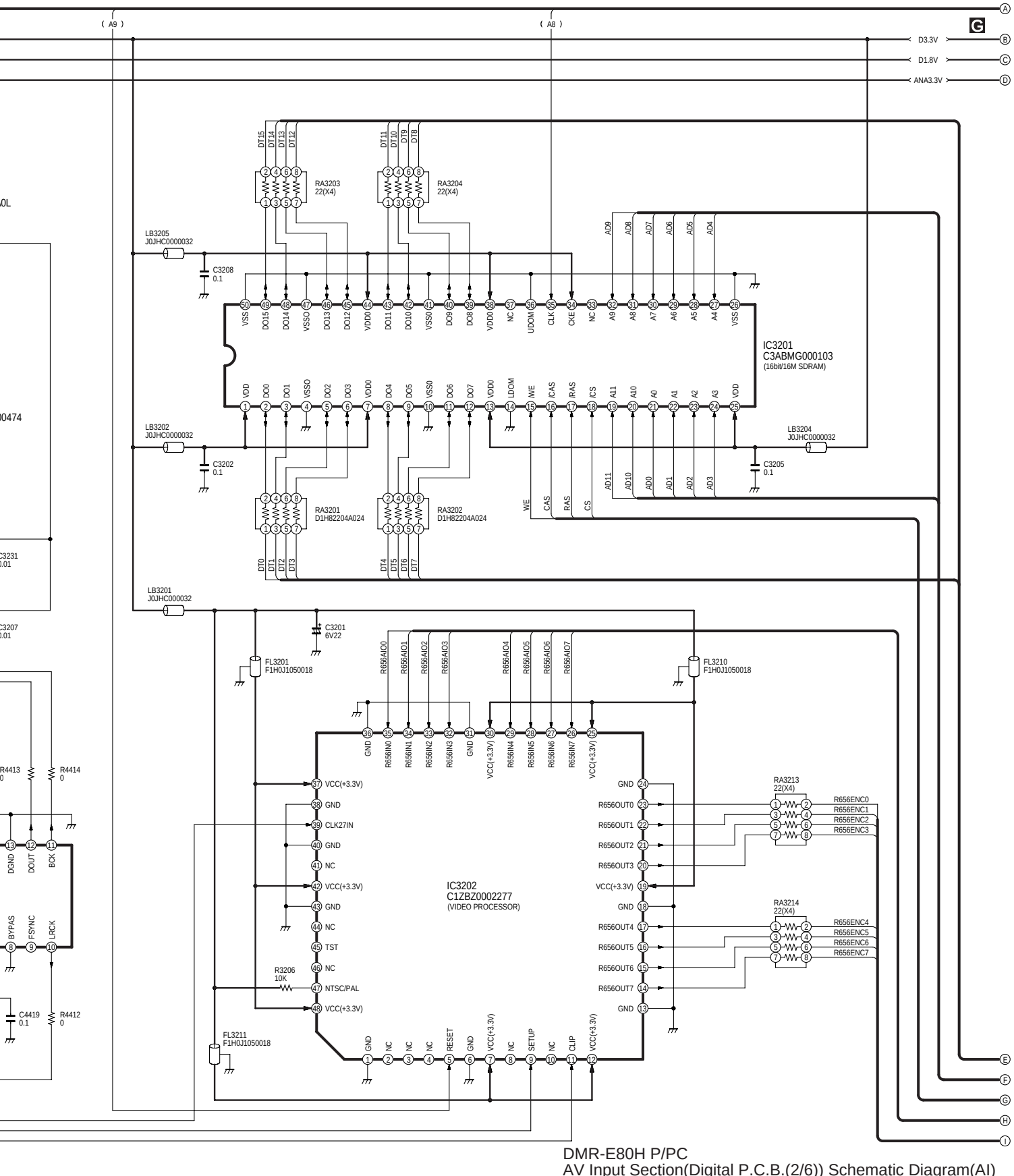
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Digital Net Section
(Digital P.C.B.(1/6))
Schematic Diagram(DN)

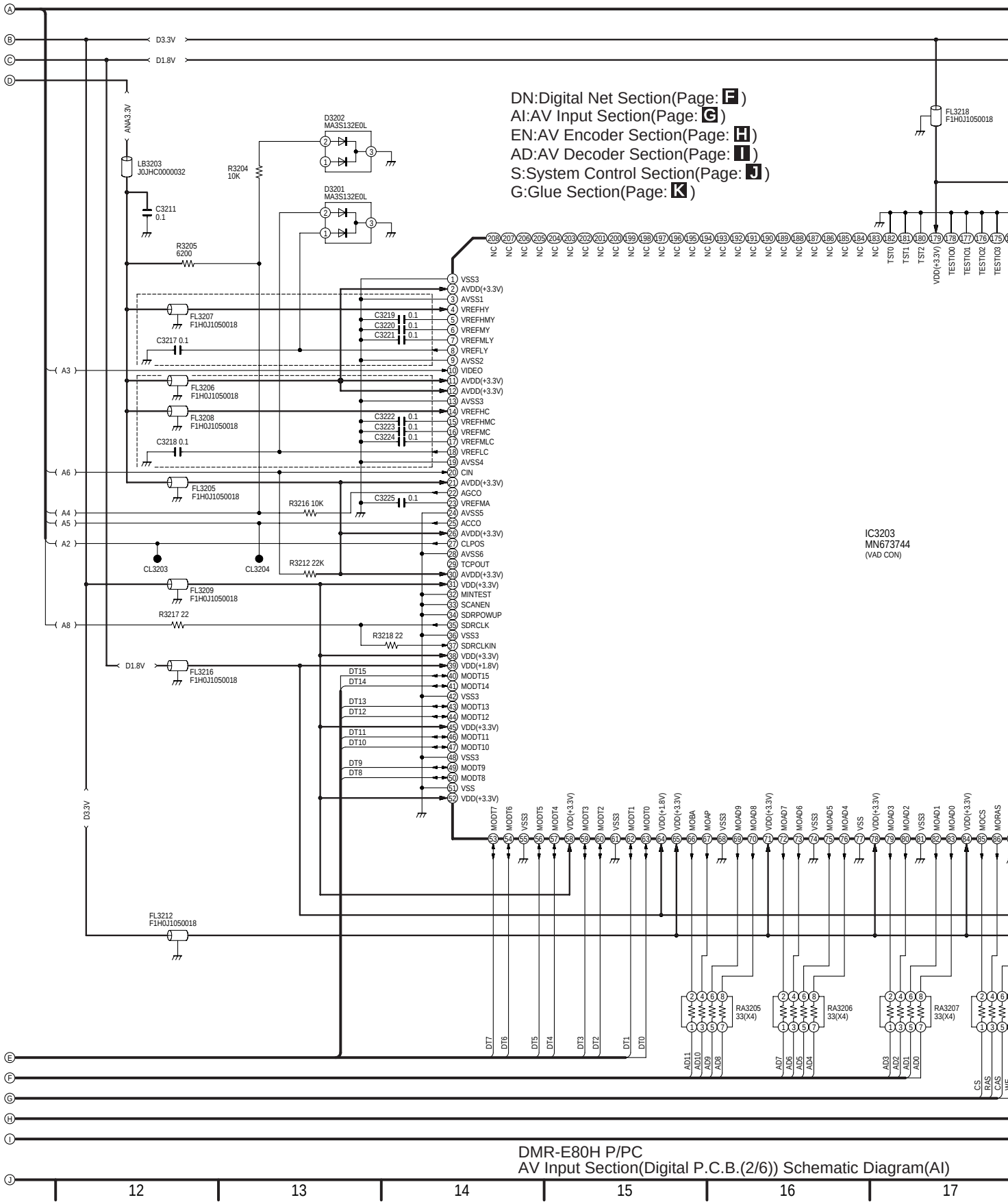
6 | 7 | 8 | 9 | 10 | 11

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/6)

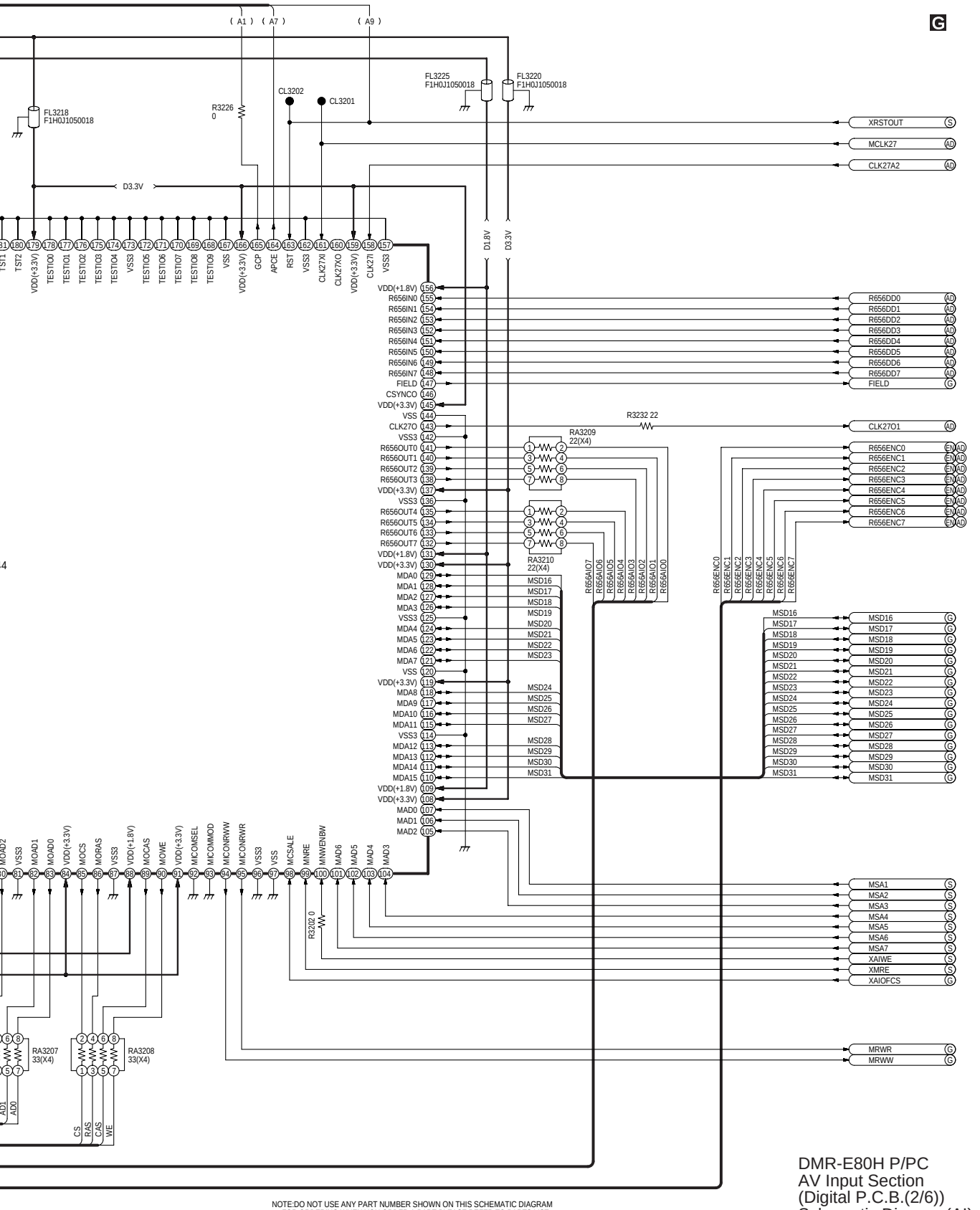




DMR-E80H P/PC
AV Input Section(Digital P.C.B.(2/6)) Schematic Diagram(AI)



DMR-E80H P/PC
AV Input Section(Digital P.C.B.(2/6)) Schematic Diagram(AI)



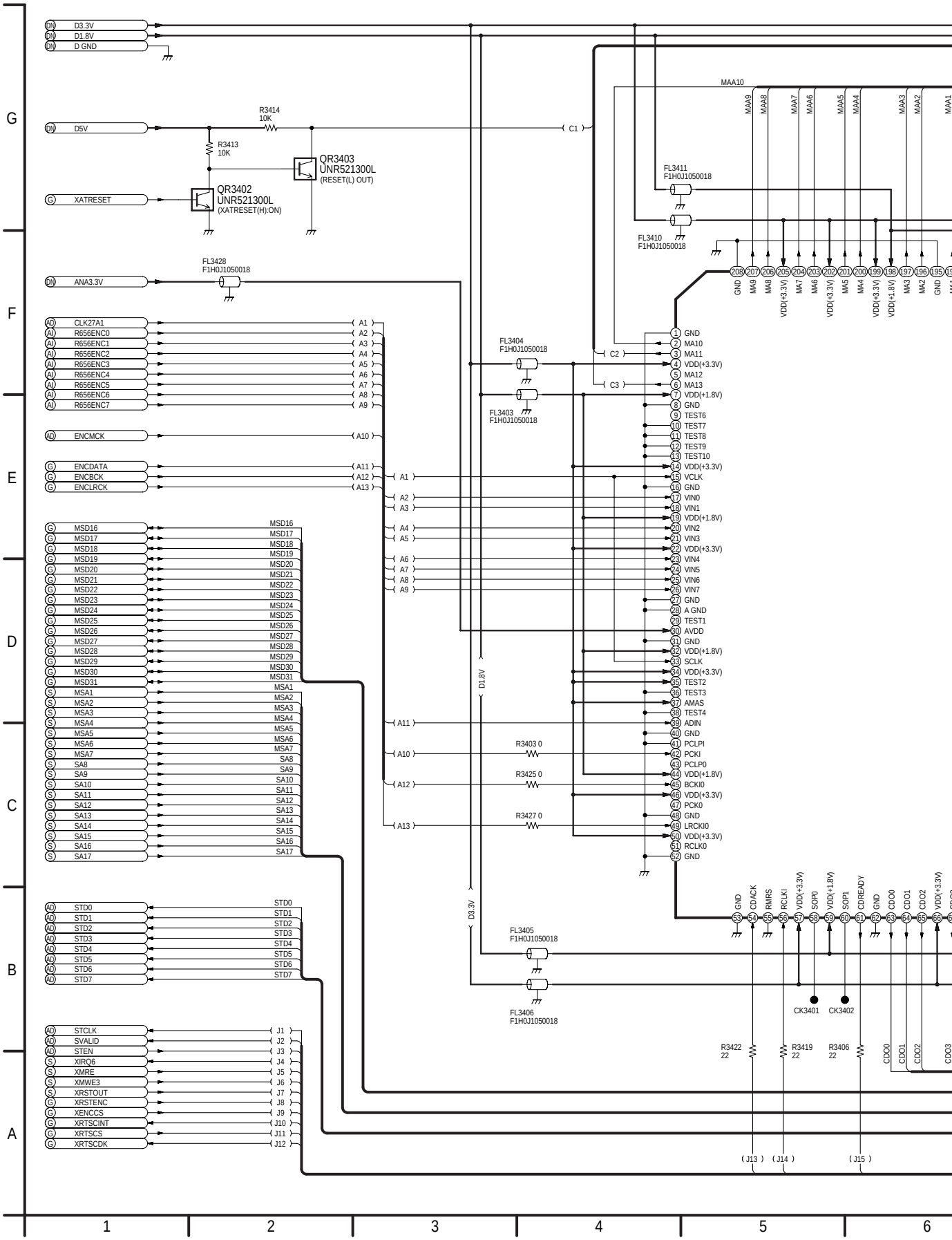
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

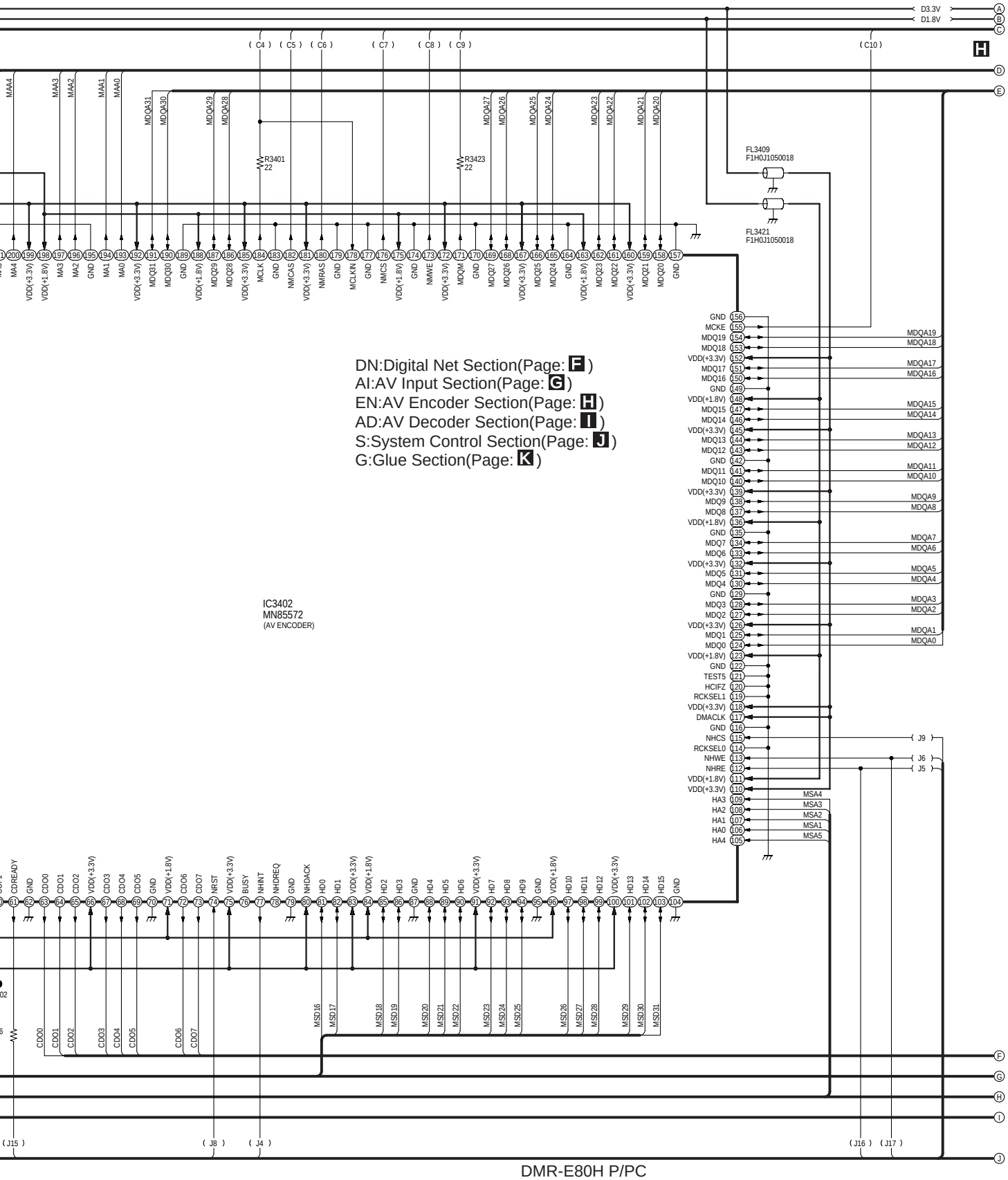
DMR-E80H P/PC
AV Input Section
(Digital P.C.B.(2/6))
Schematic Diagram(AI)

am(AI)

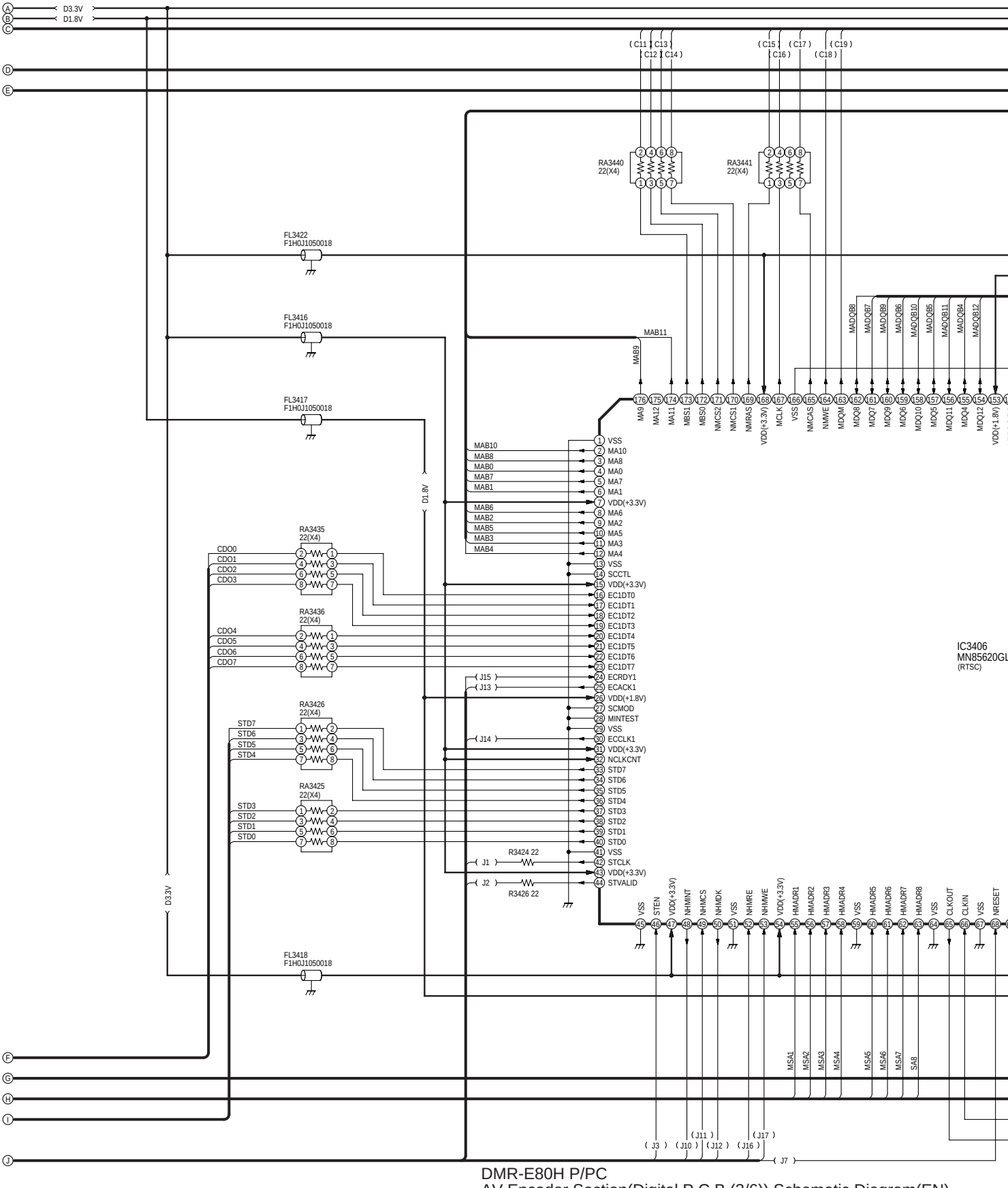
17 | 18 | 19 | 20 | 21 | 22

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/6)



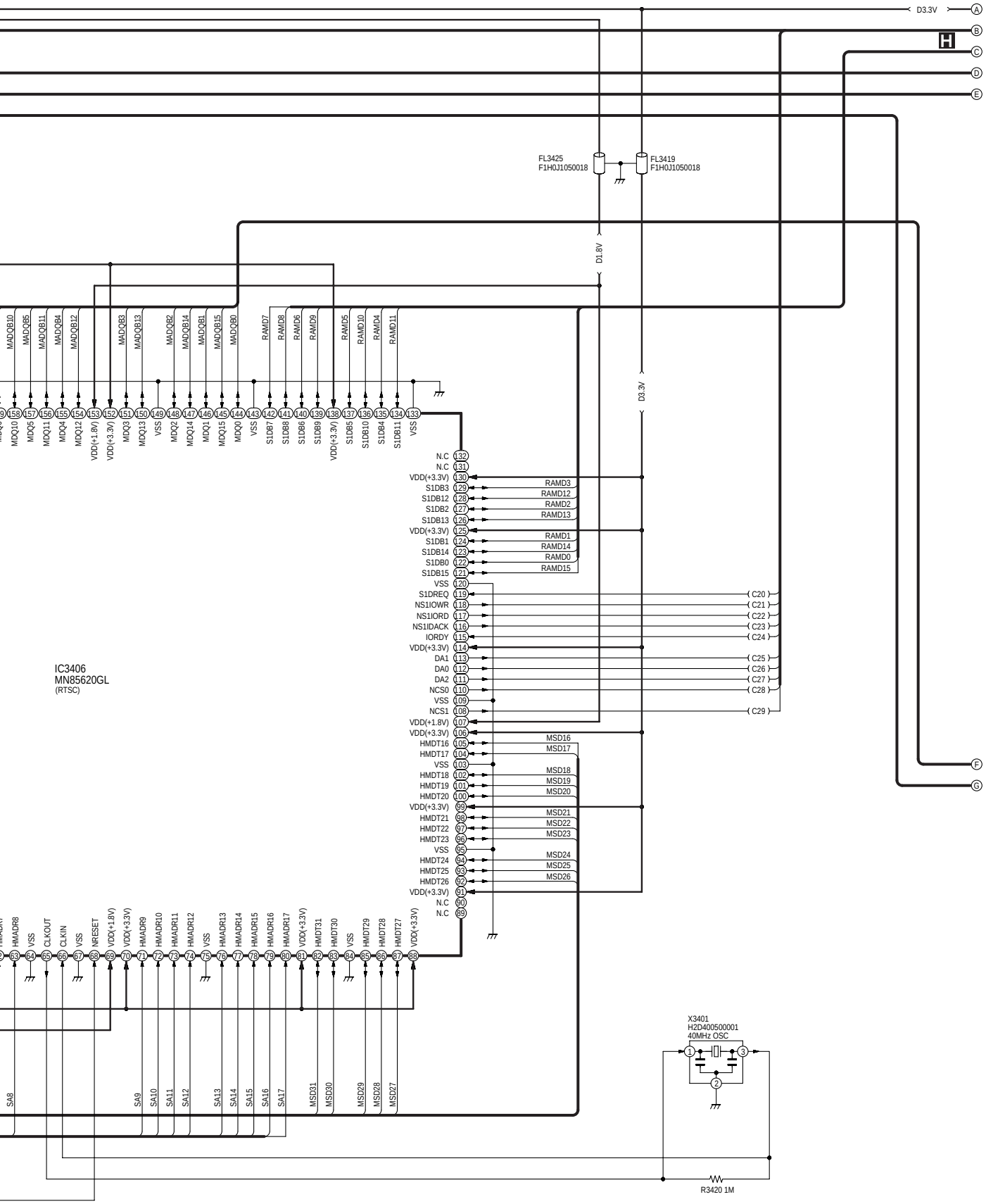


DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)



DMR-E80H P/PC

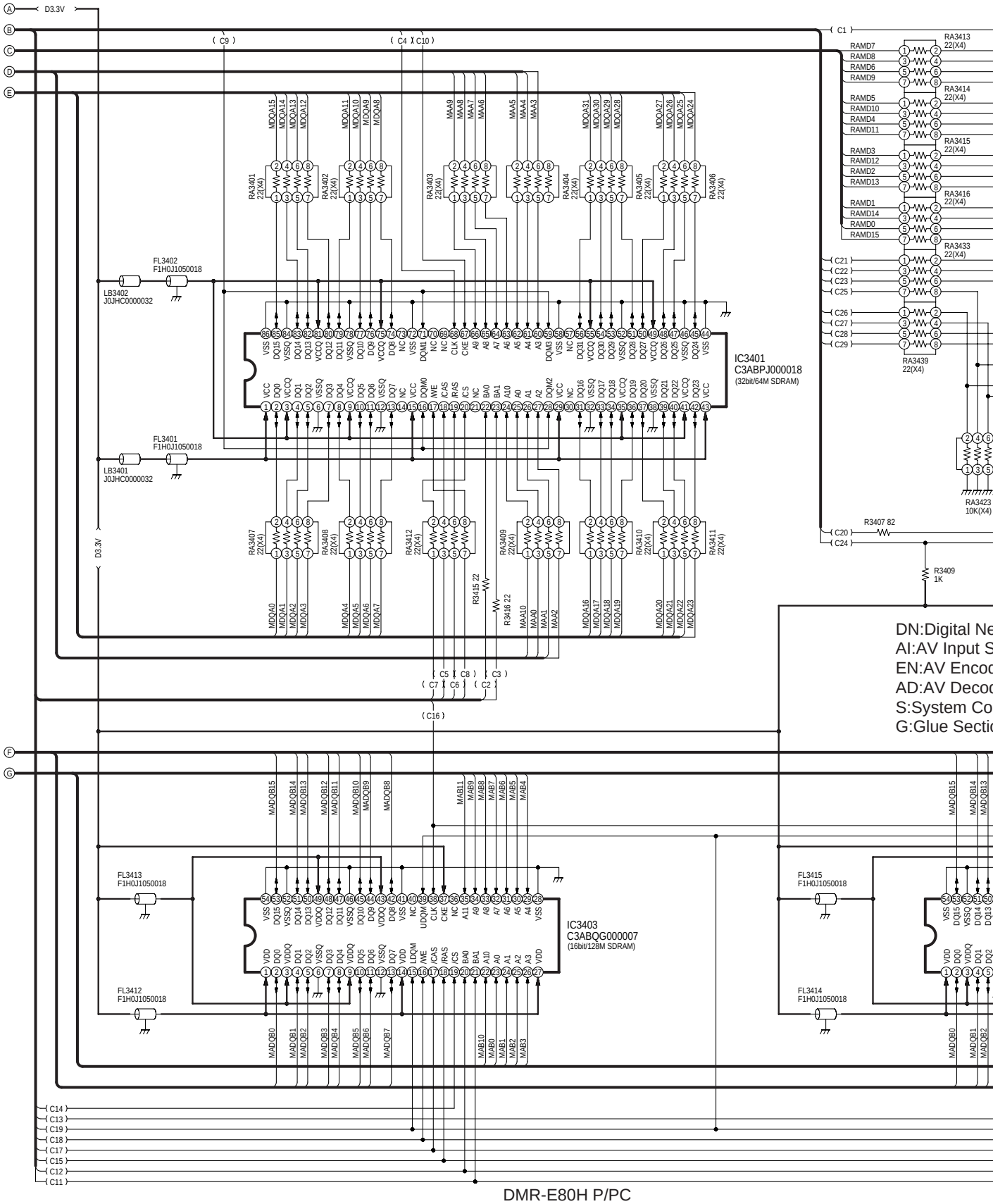
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)



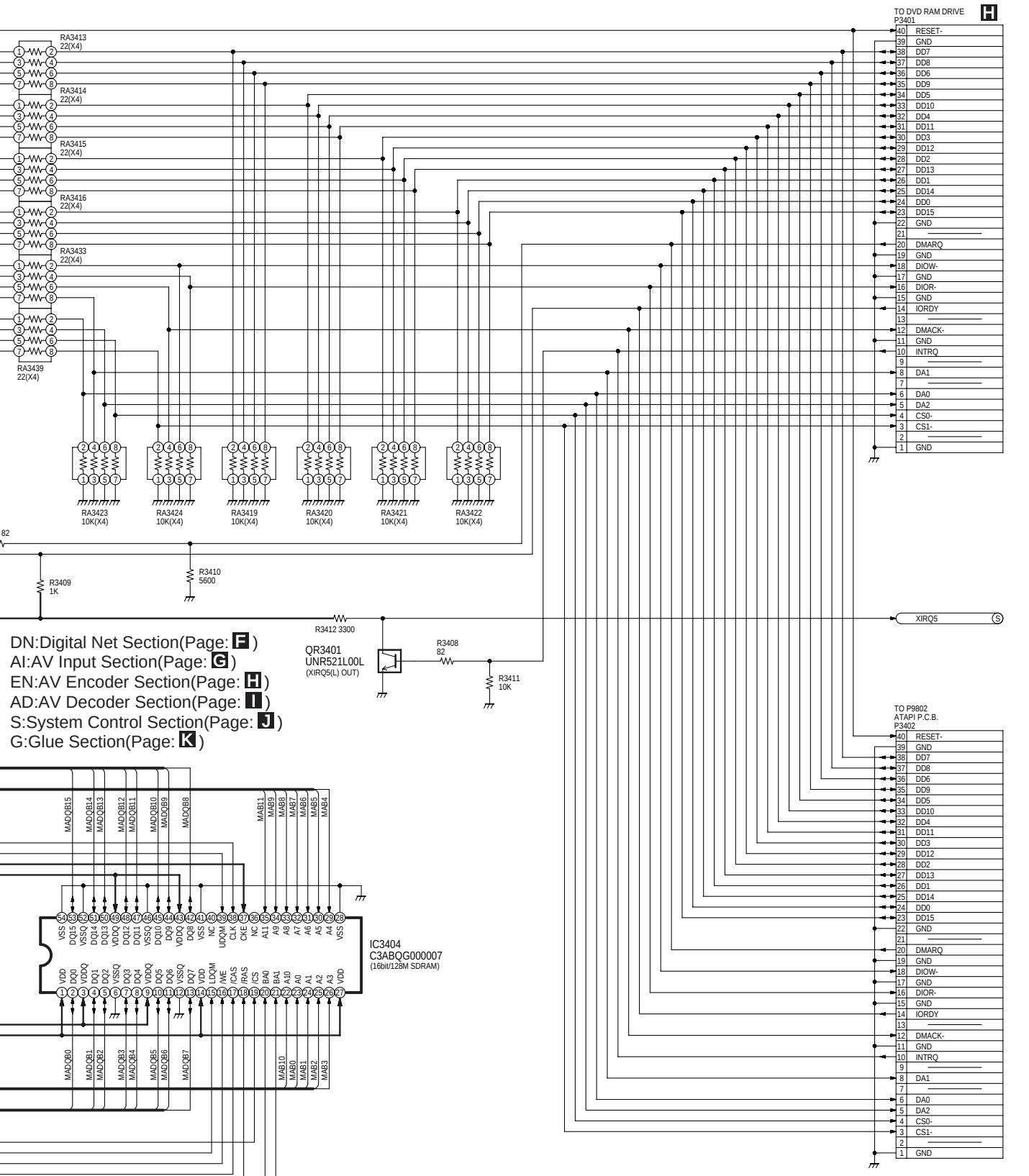
DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

m(EN)

17 | 18 | 19 | 20 | 21 | 22



DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

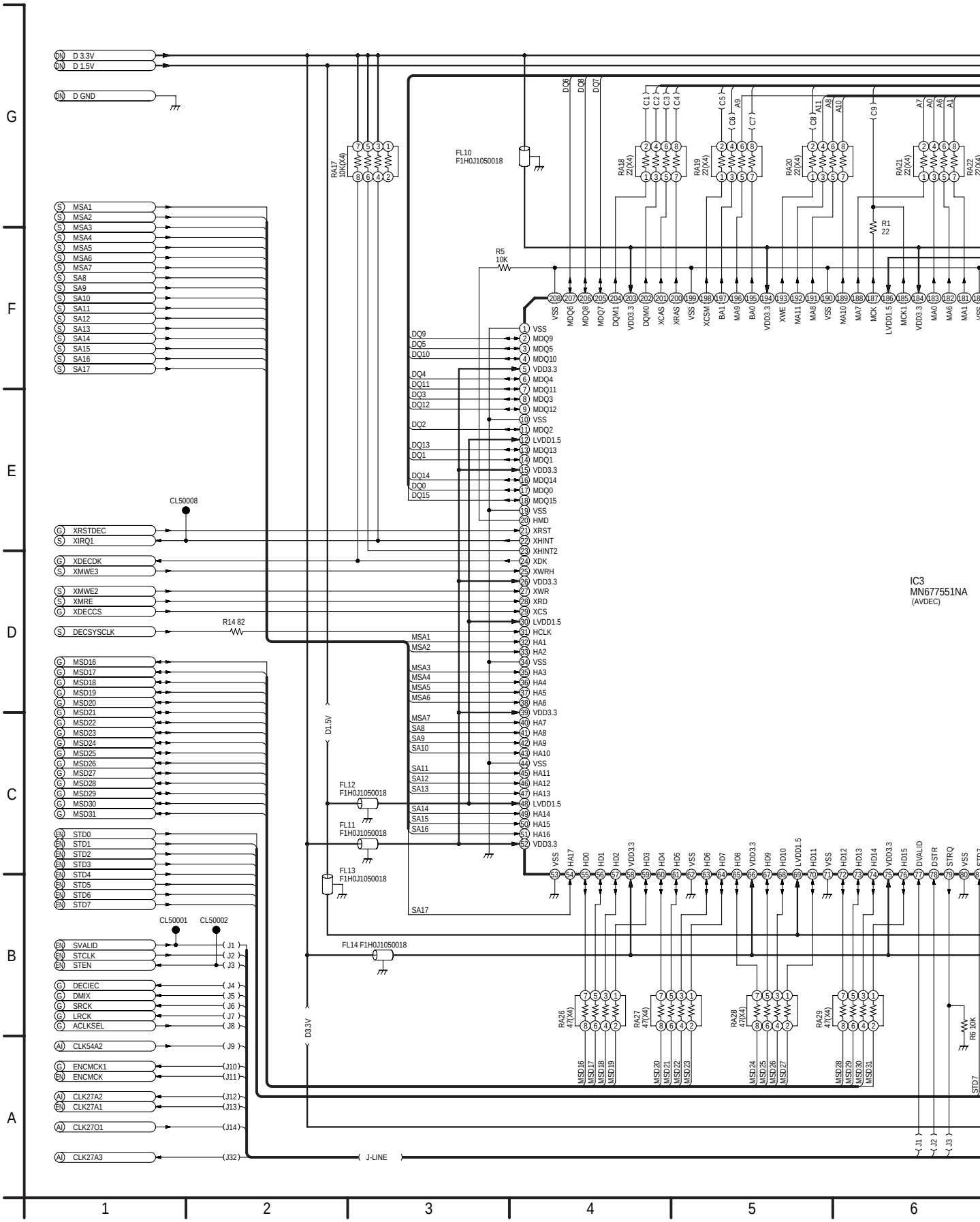


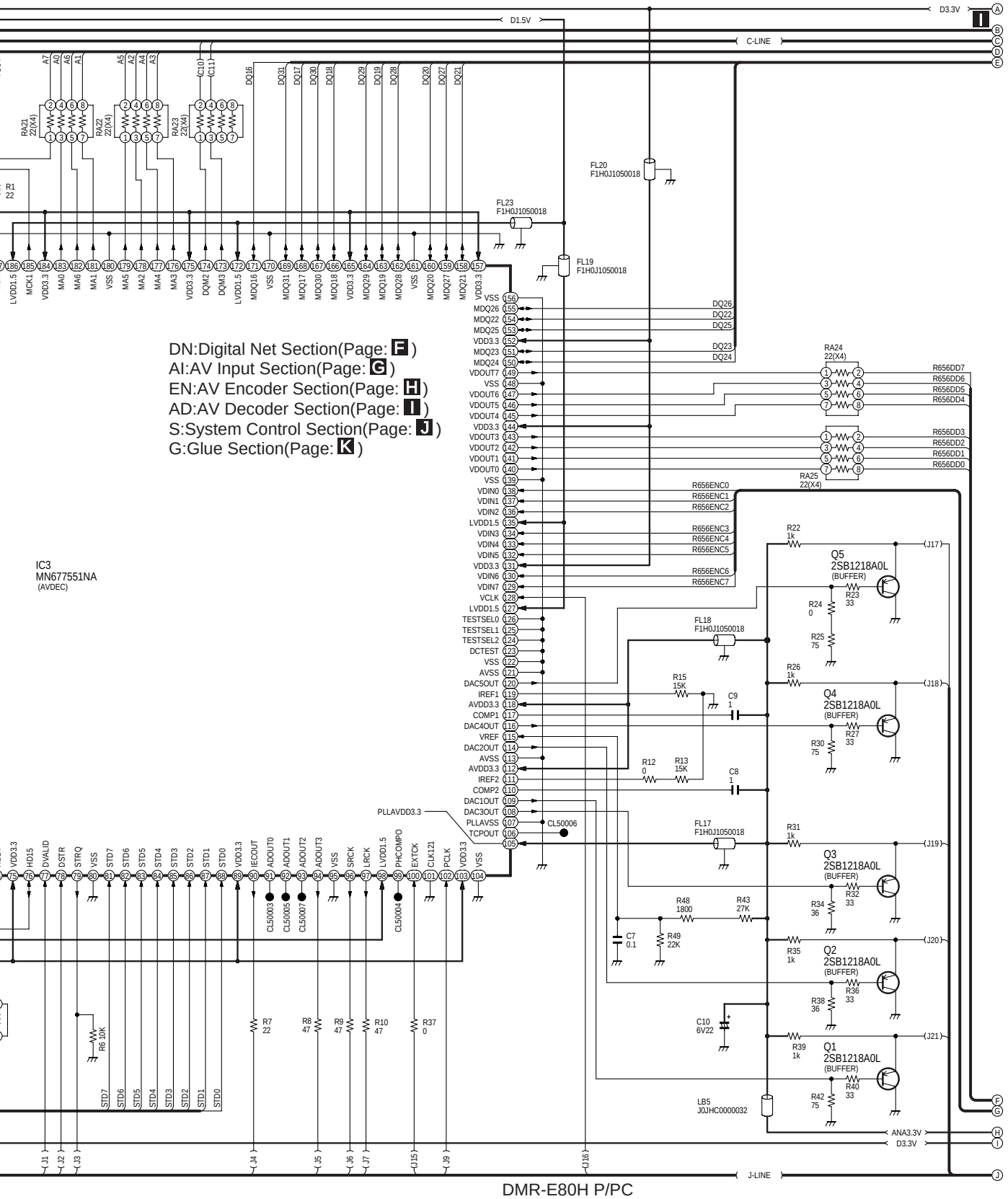
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

Diagram(EN)

28 29 30 31 32

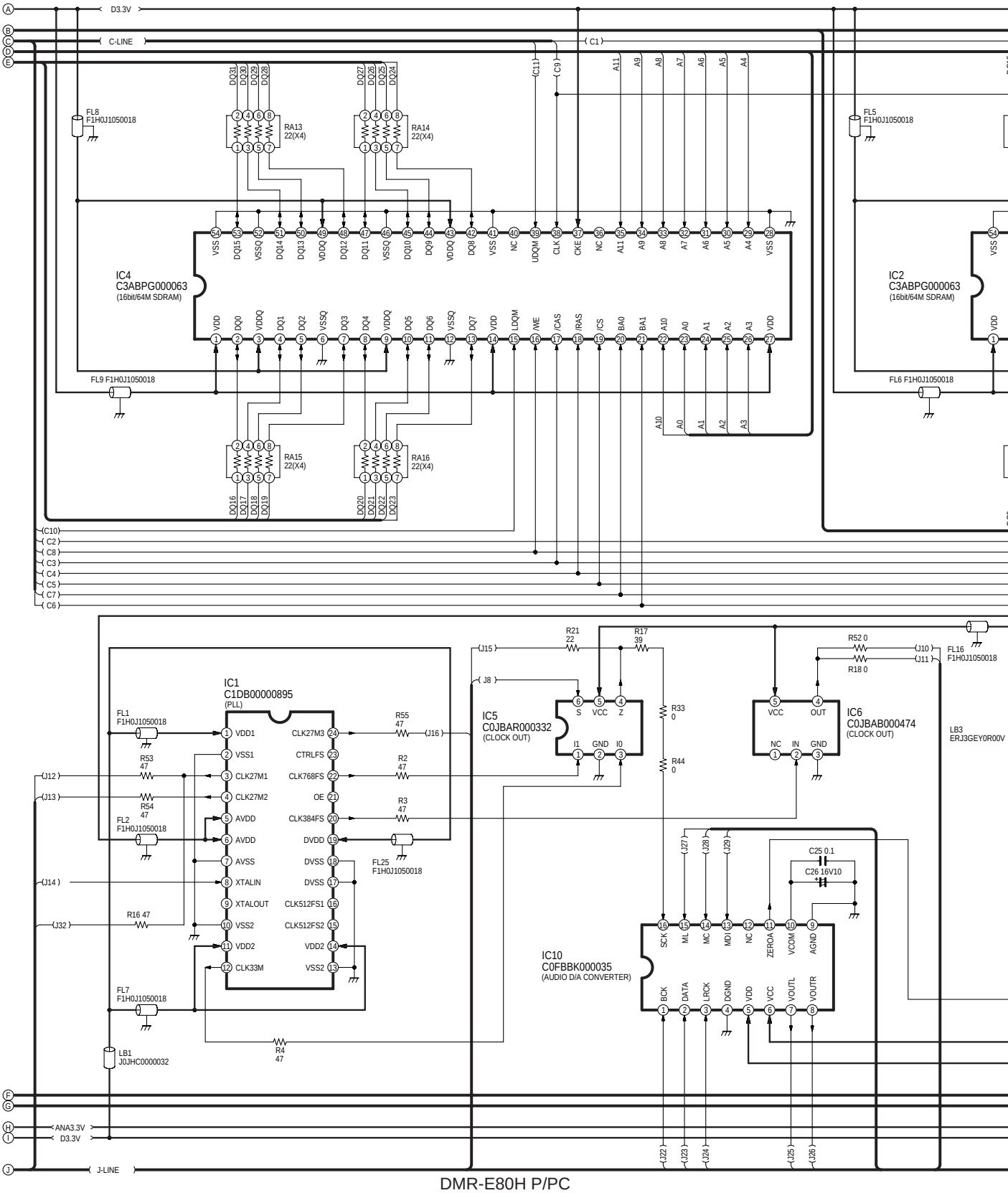
14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/6)



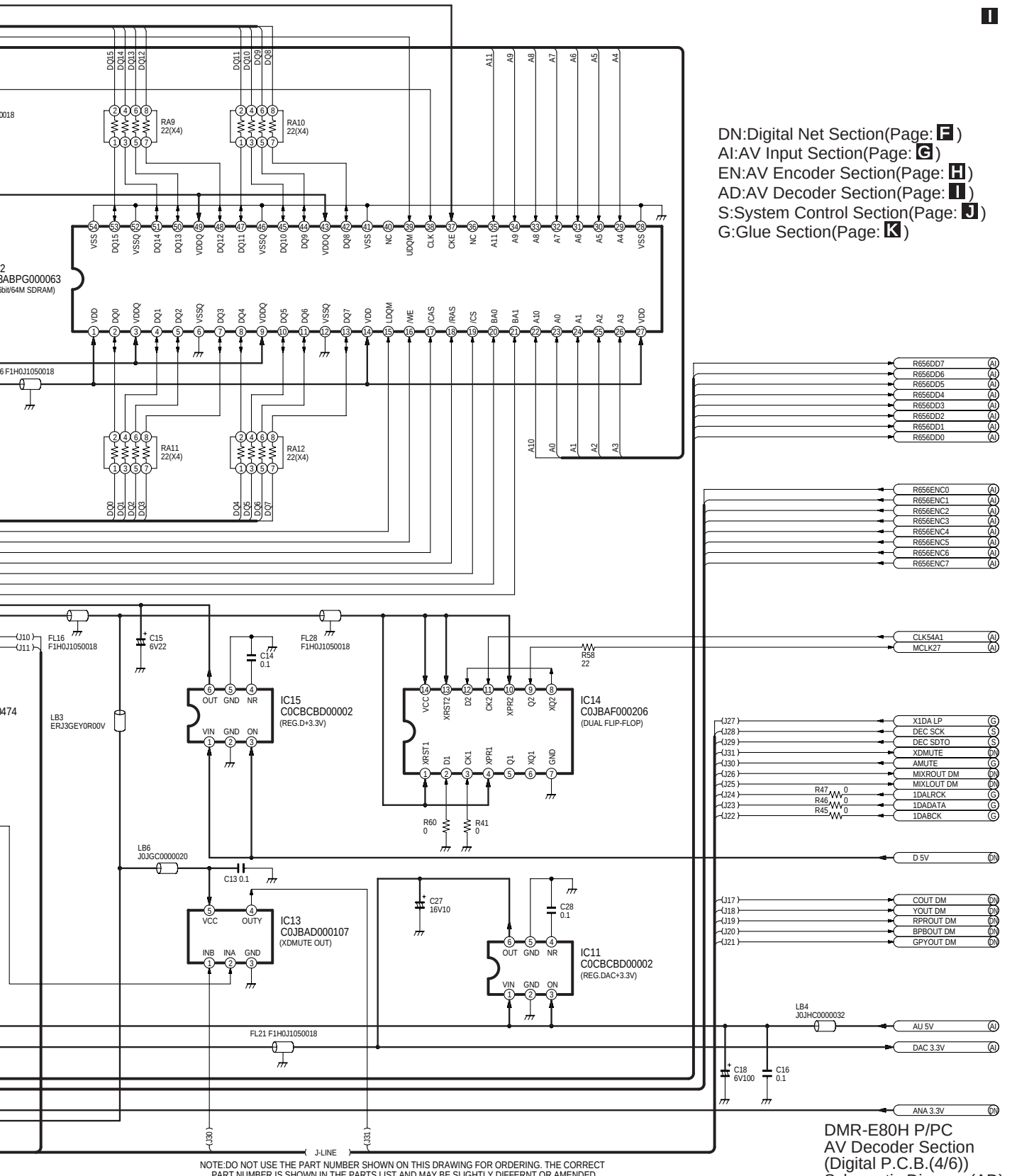


DMR-E80H P/PC
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)

6 | 7 | 8 | 9 | 10 | 11



DMR-E80H P/PC
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

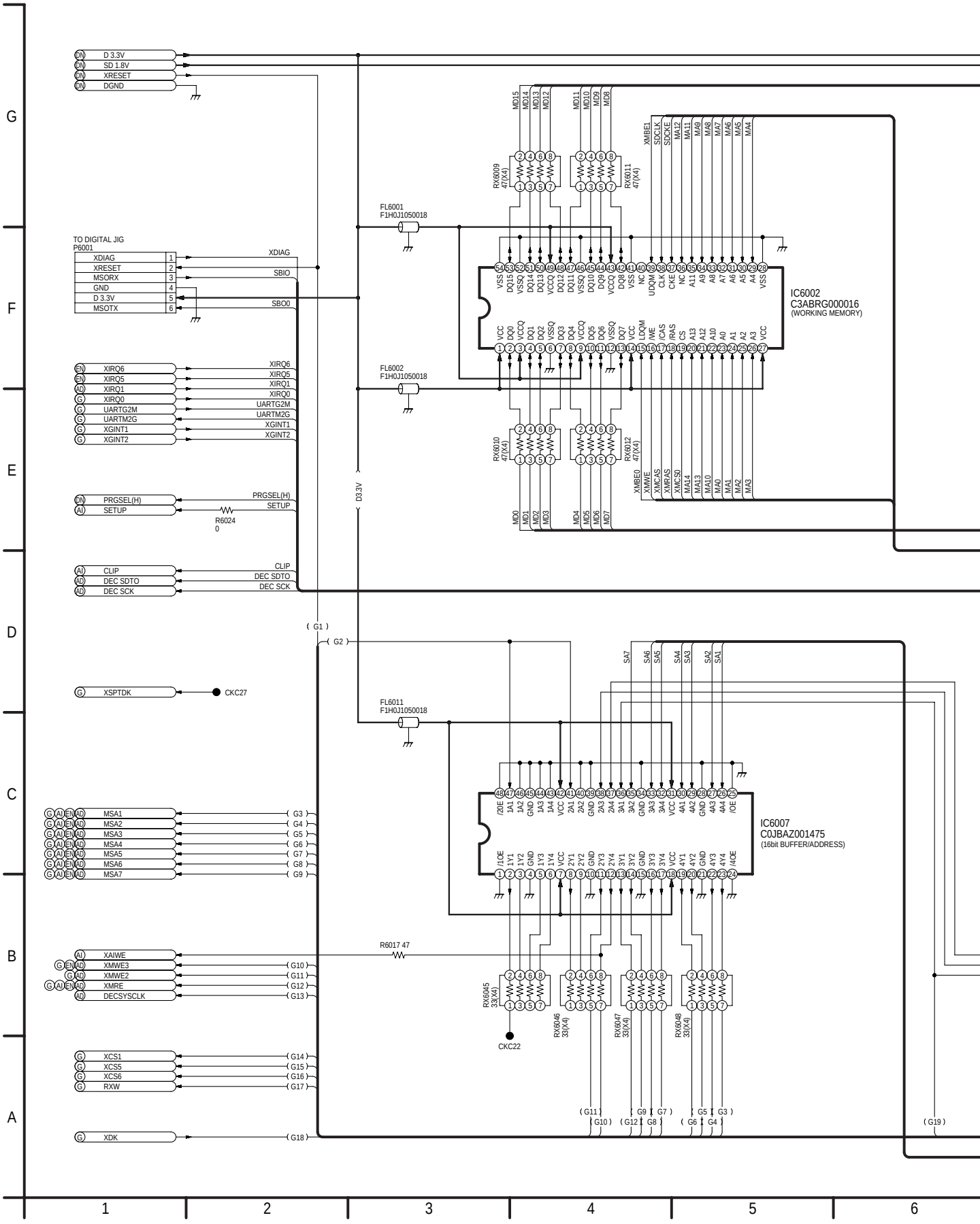
REF.NO.50000 SERIES

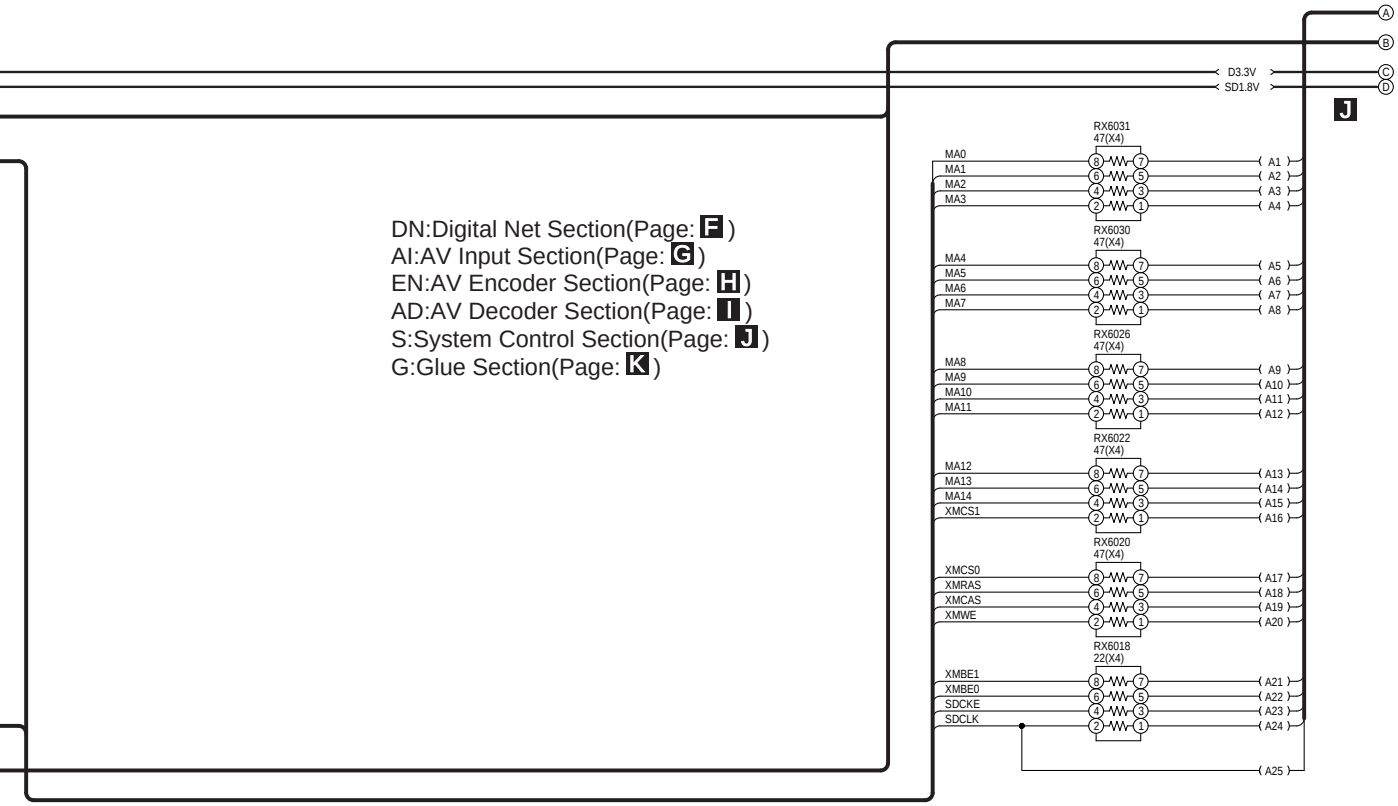
DMR-E80H P/PC
AV Decoder Section
(Digital P.C.B.(4/6))
Schematic Diagram(AD)

(AD)

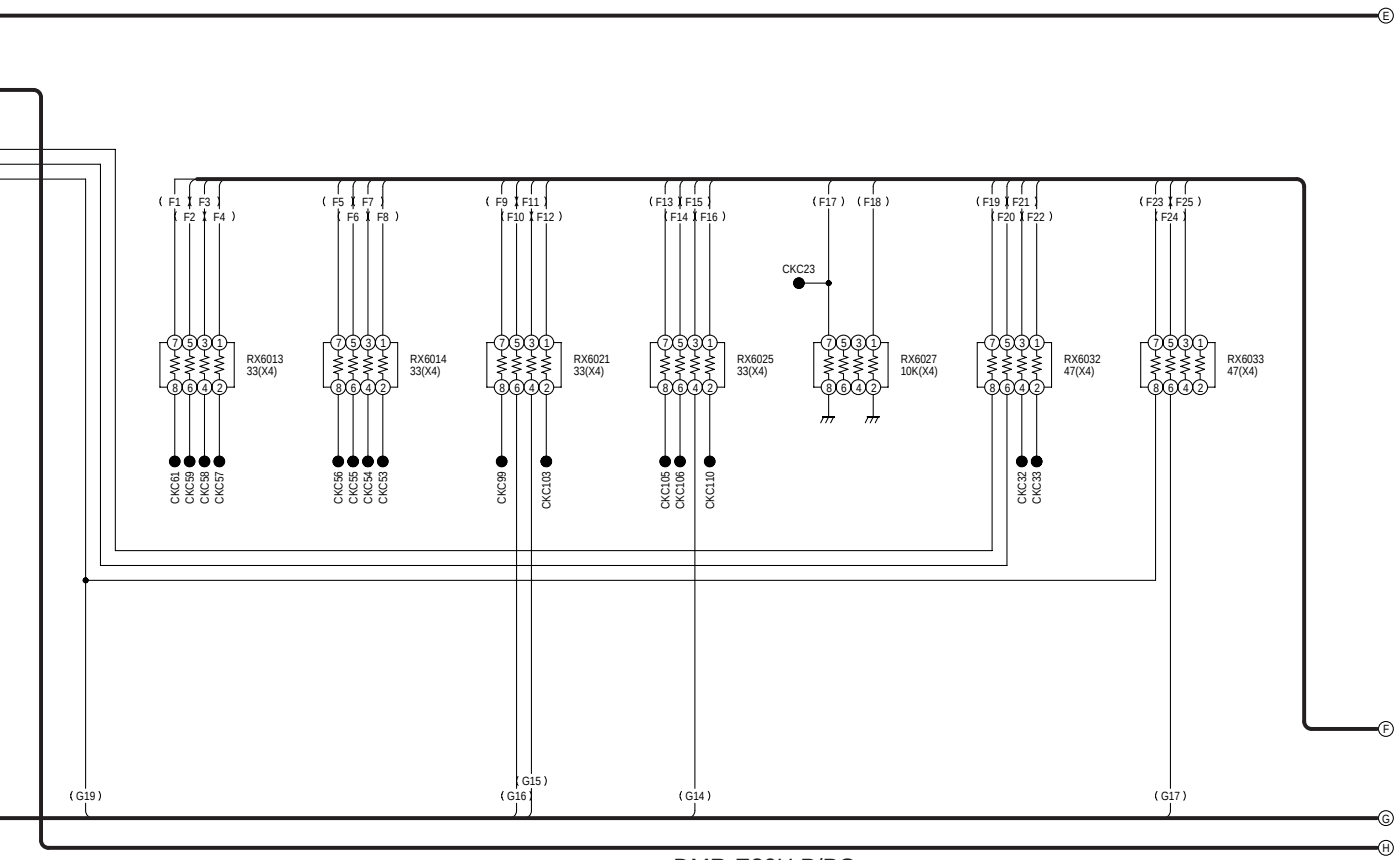
17 | 18 | 19 | 20 | 21 | 22

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/6)



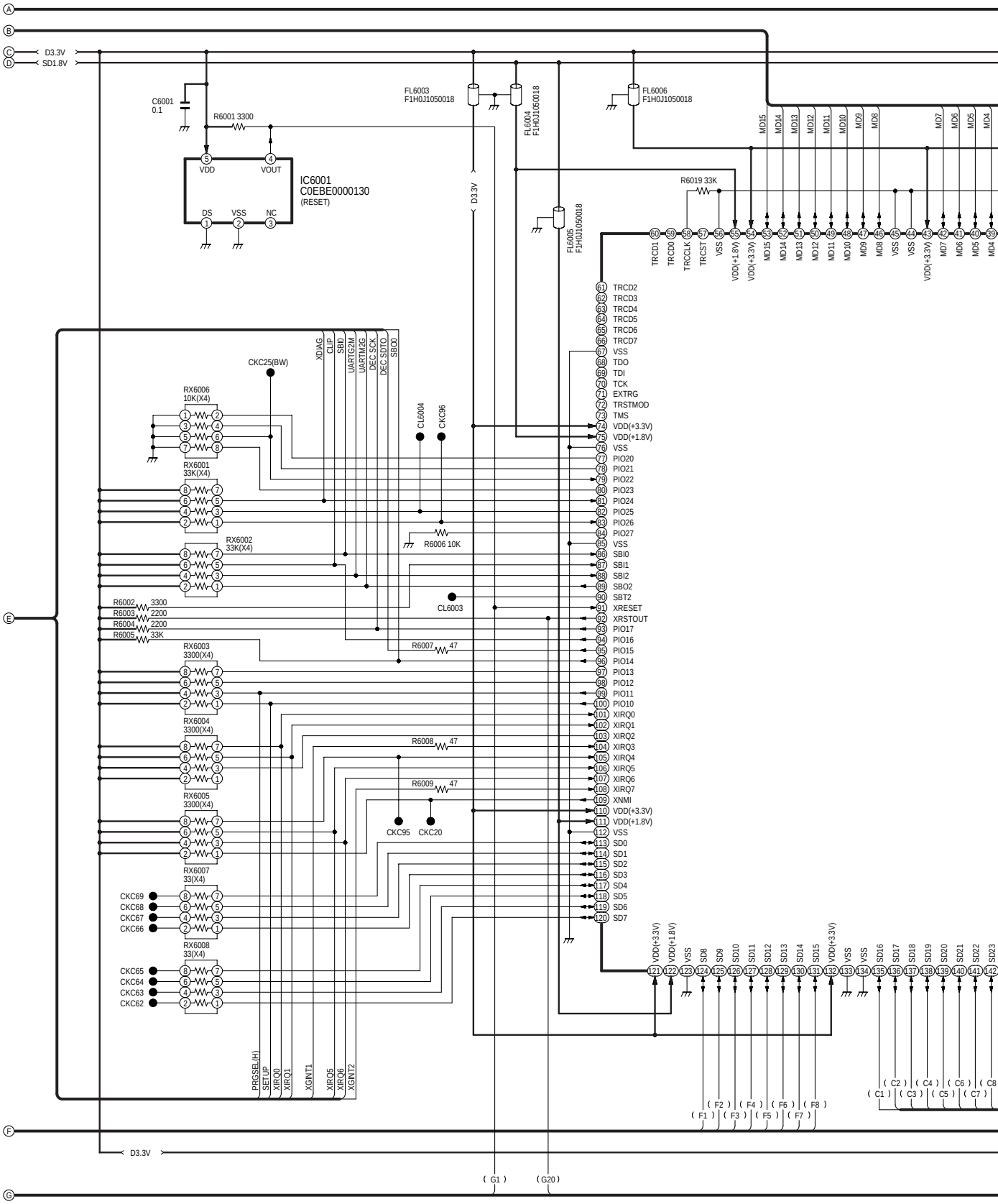


DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

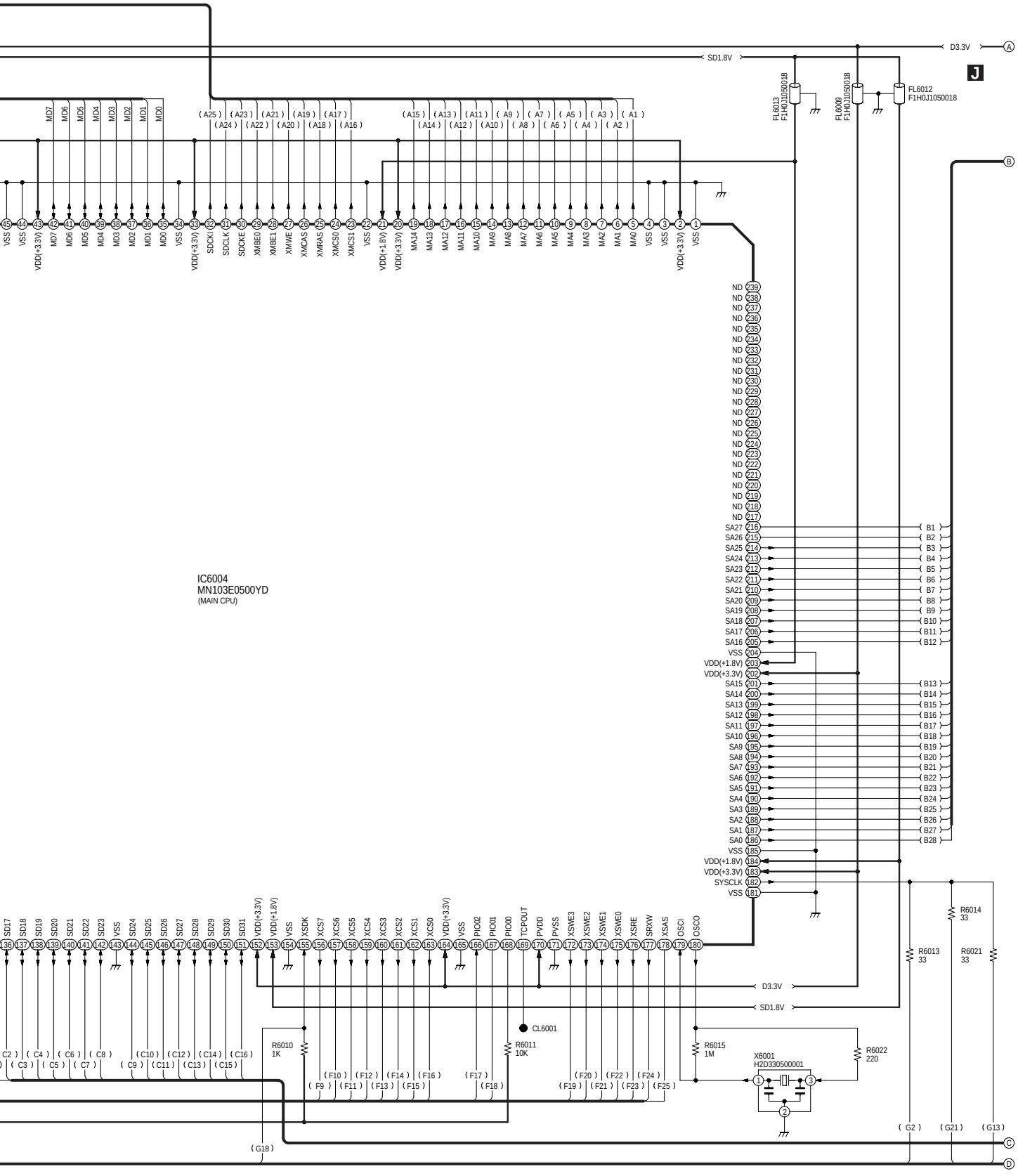


DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

6 | 7 | 8 | 9 | 10 | 11



DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

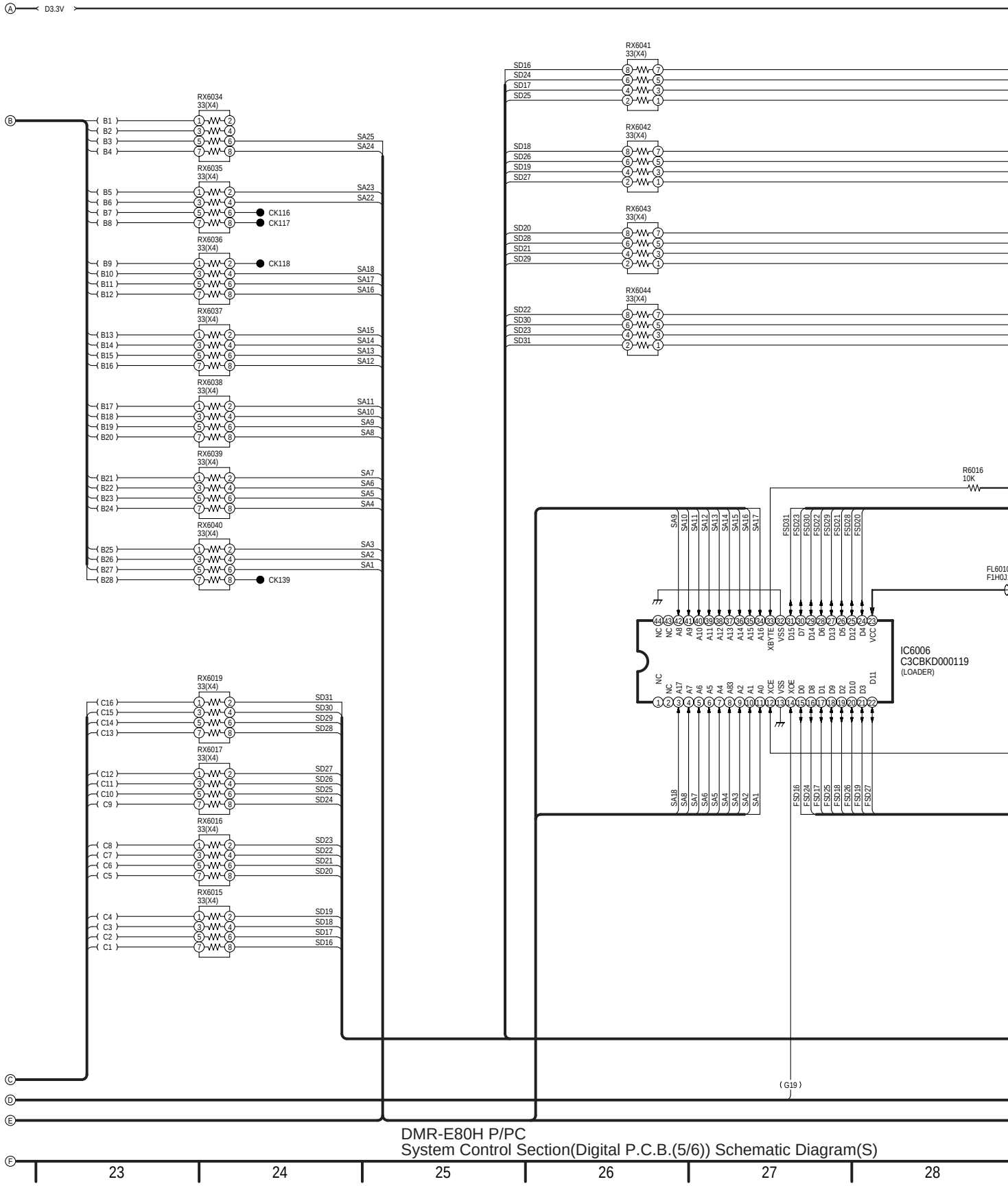


DMR--E80H P/PC

: Diagram(S)

System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

17 | 18 | 19 | 20 | 21 | 22

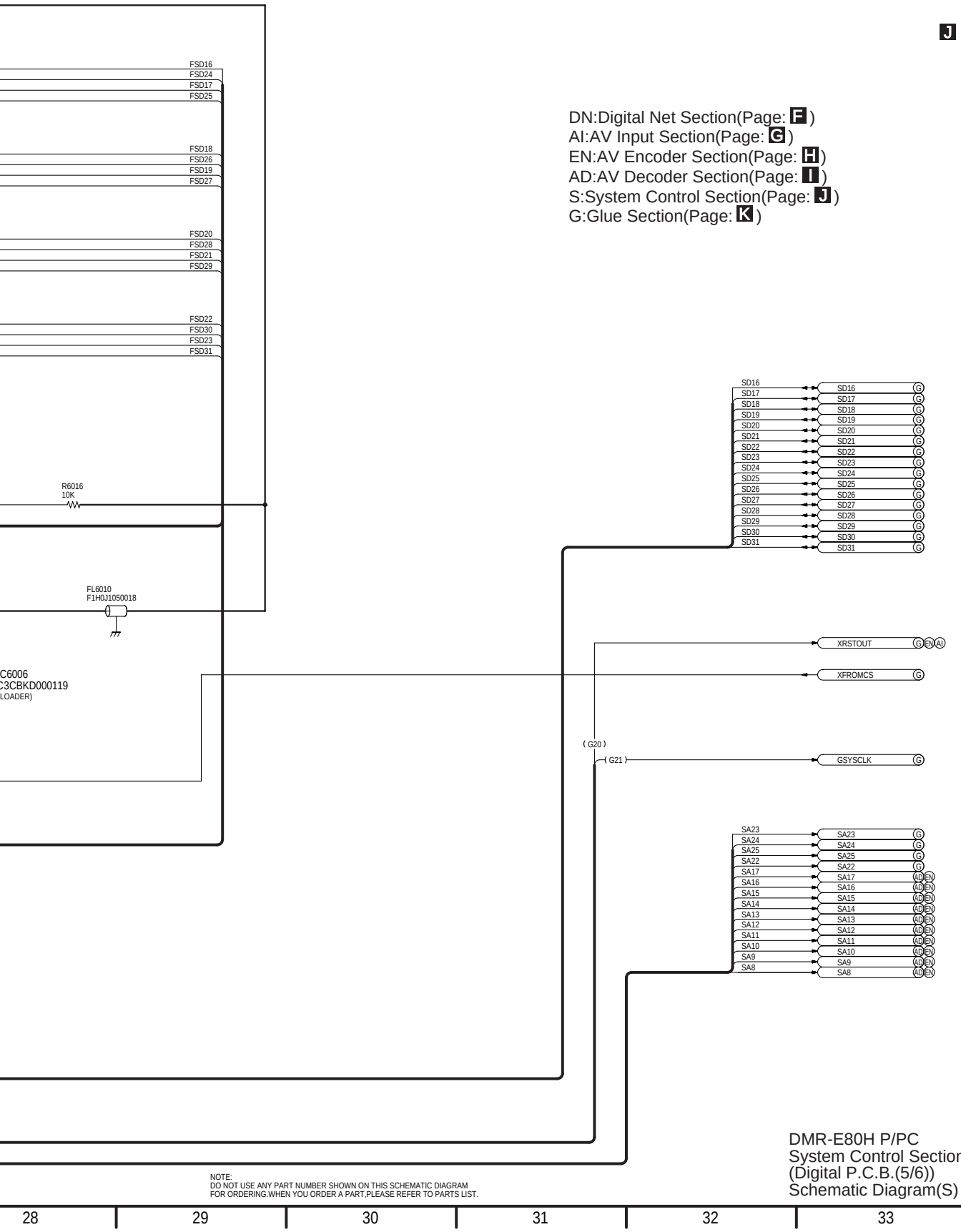


DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

23 24 25 26 27 28

J

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

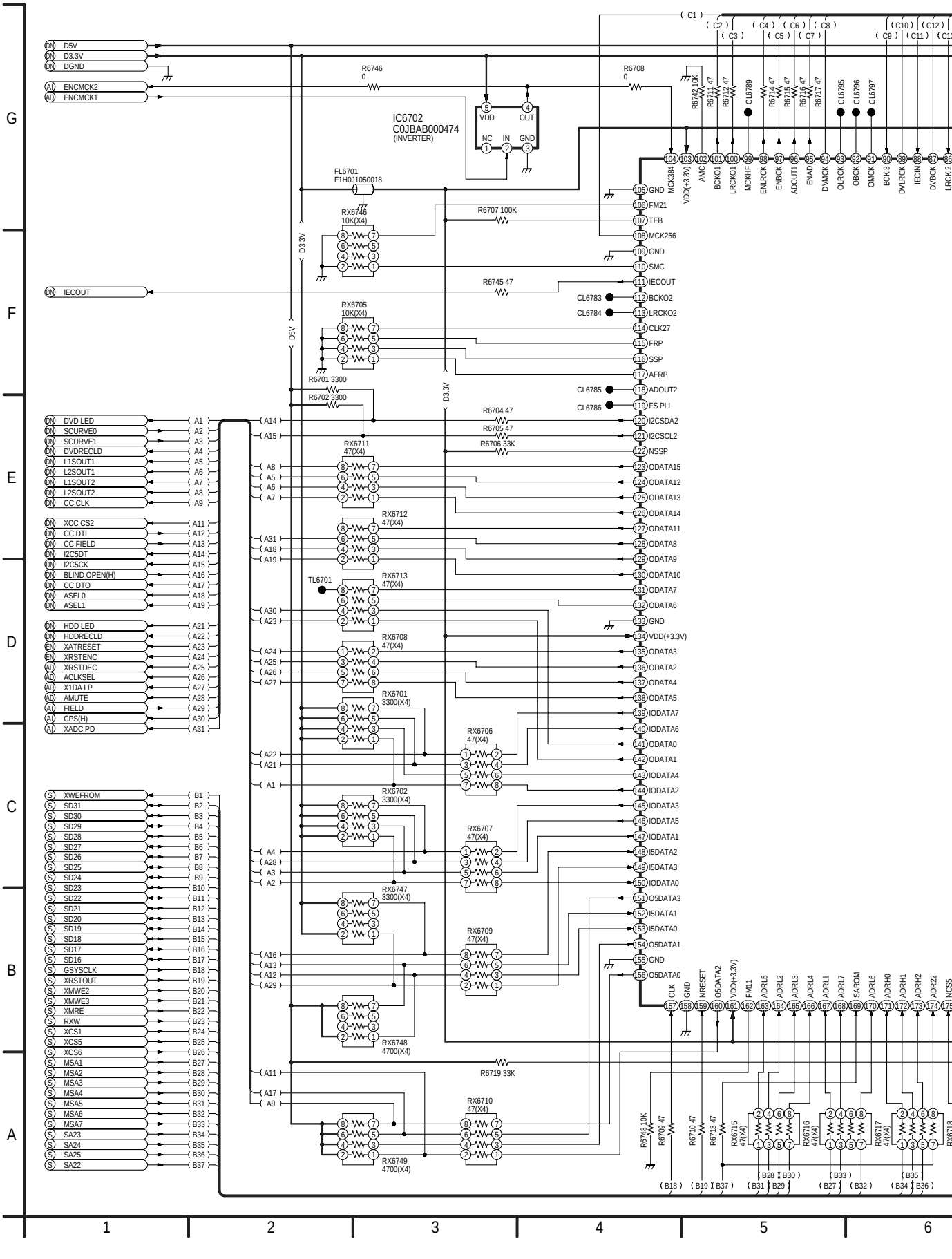


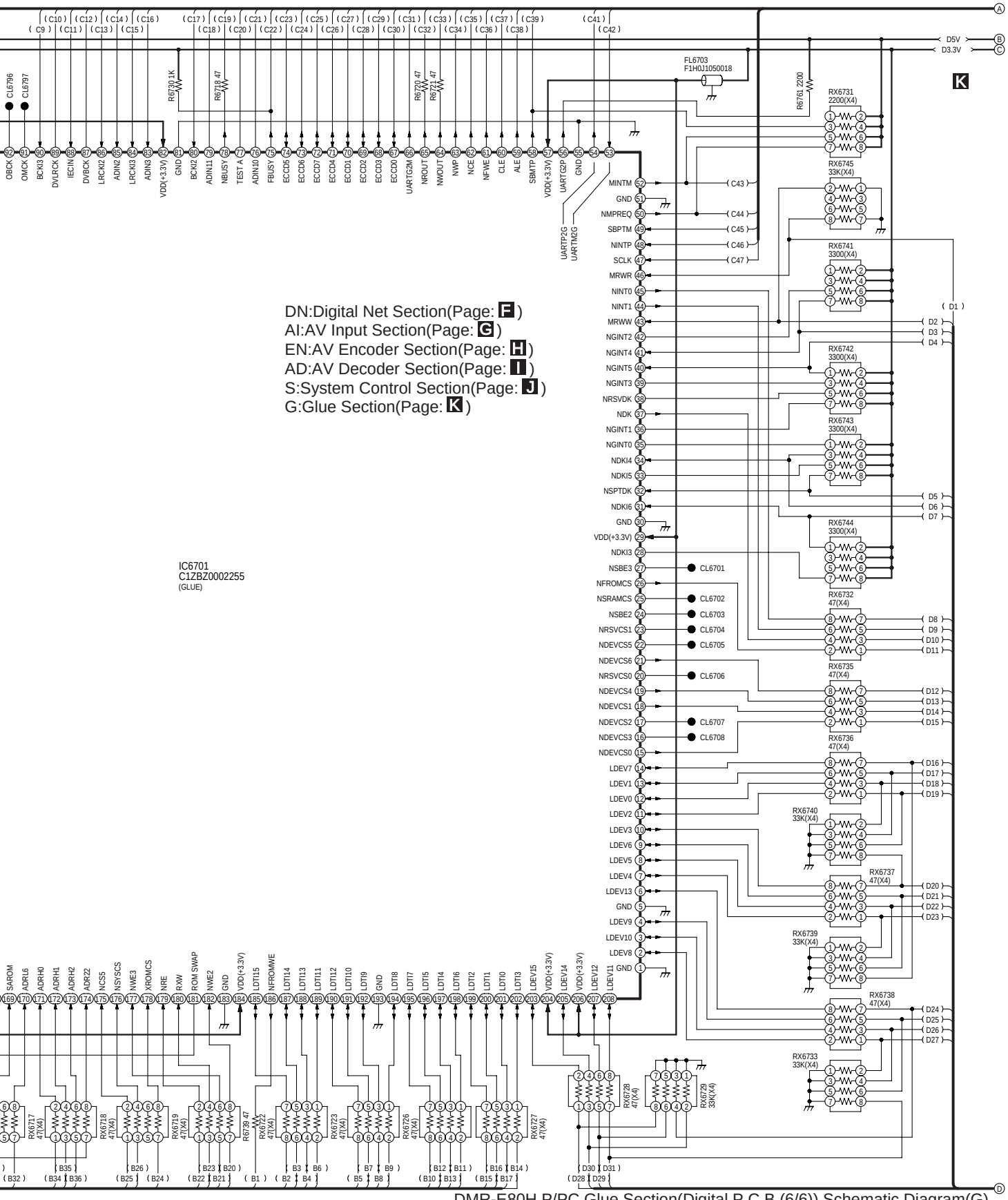
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E80H P/PC
System Control Section
(Digital P.C.B.(5/6))
Schematic Diagram(S)

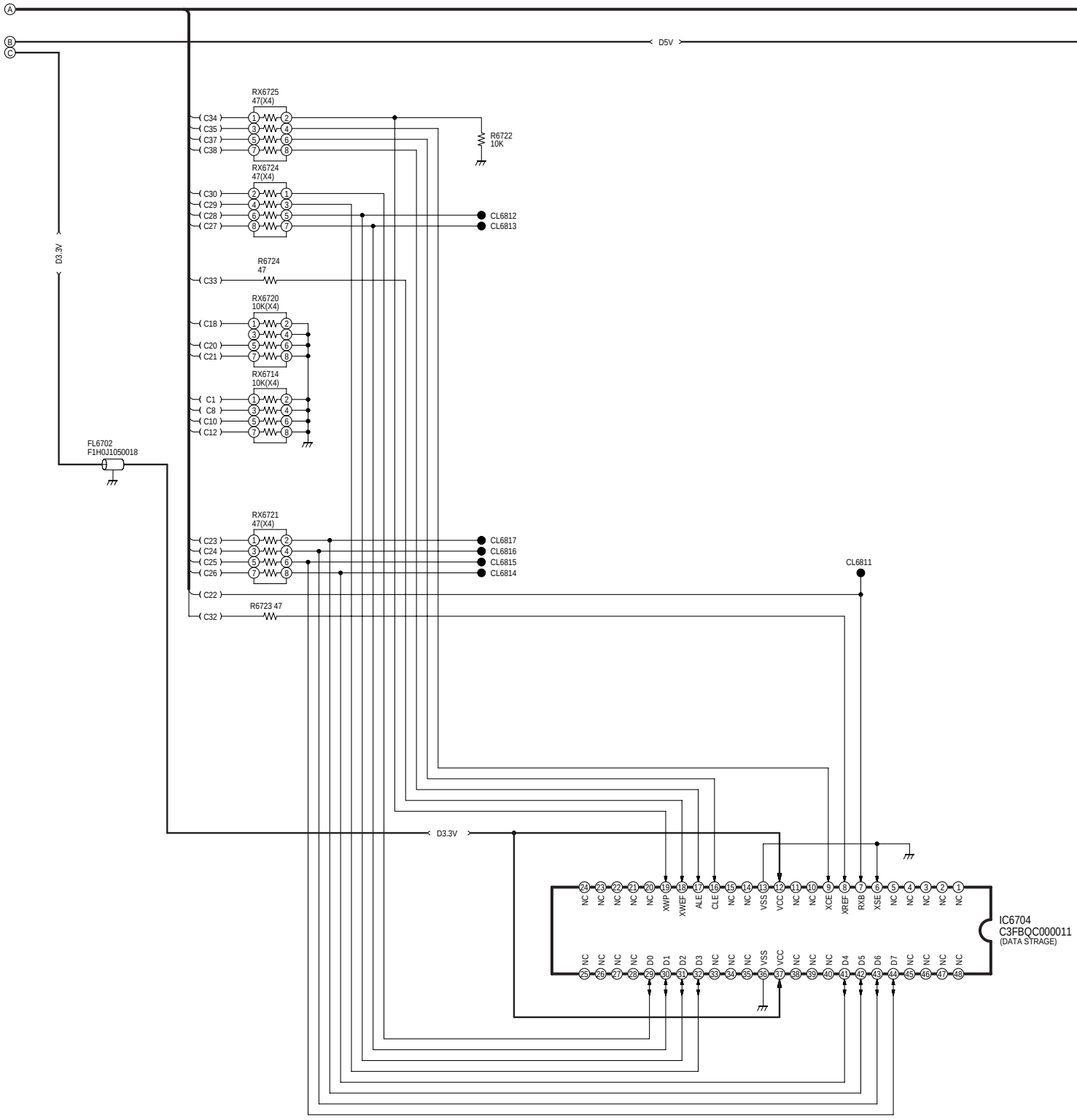
28 | 29 | 30 | 31 | 32 | 33

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/6)



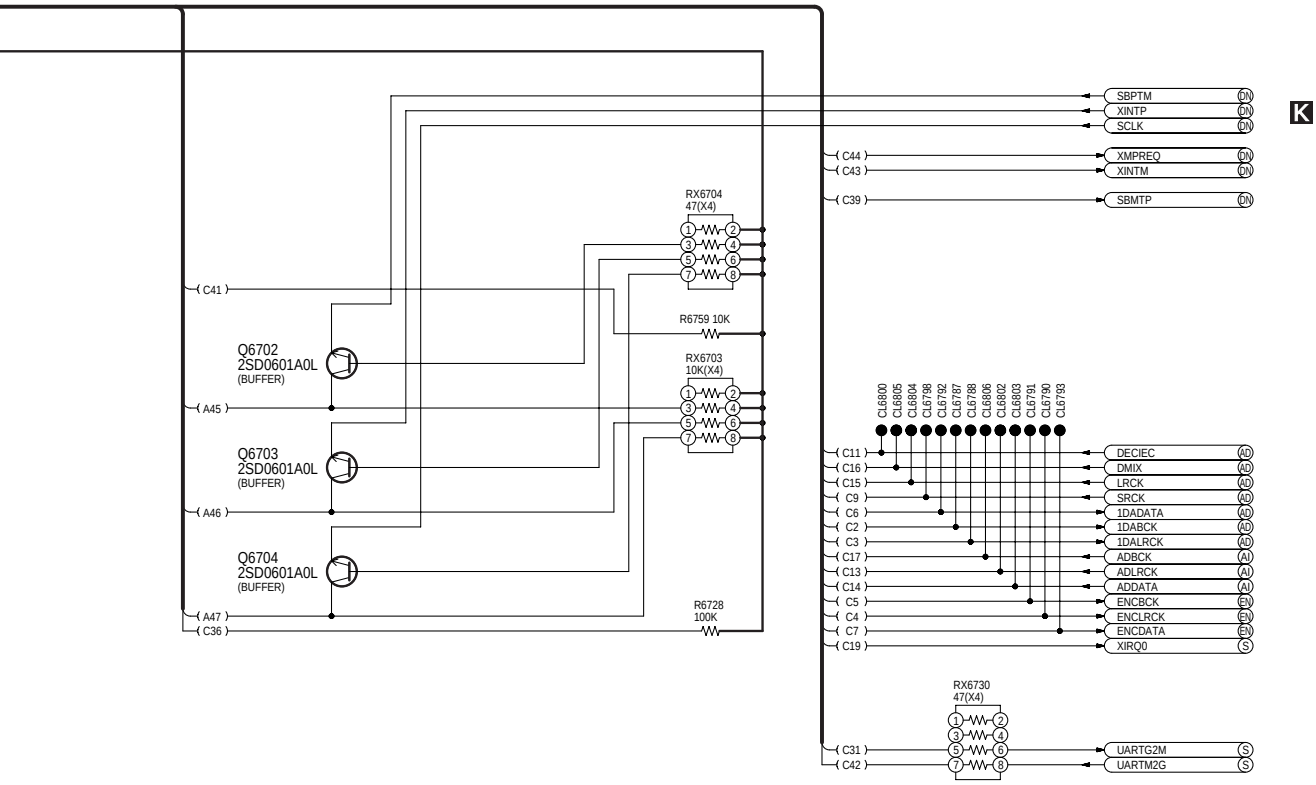


DMR-E80H P/PC Glue Section(Digital P.C.B.(6/6)) Schematic Diagram(G)

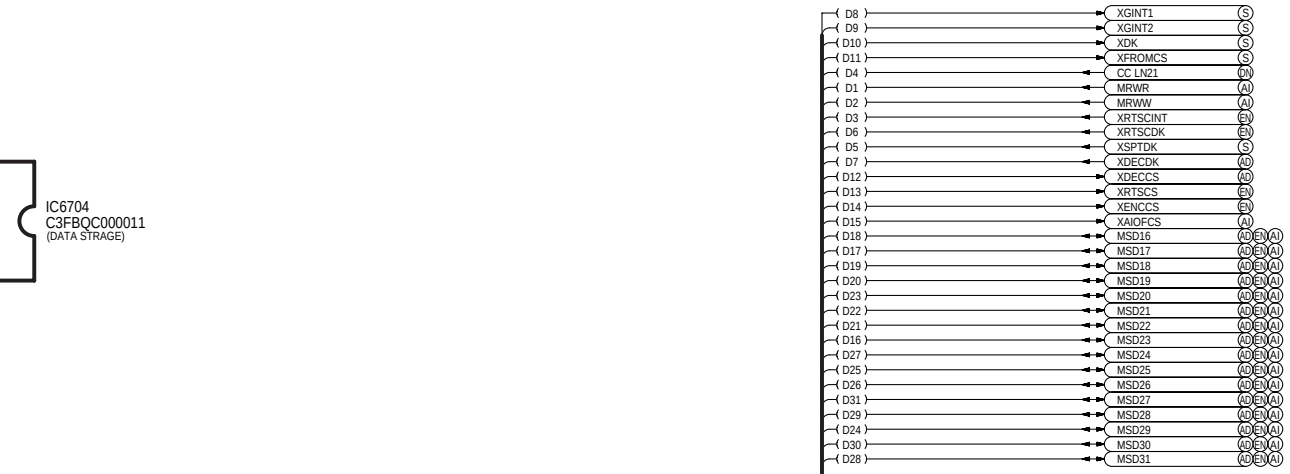


DMR-E80H P/PC Glue Section(Digital P.C.B.(6/6)) Schematic Diagram(G)

12 13 14 15 16 17



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

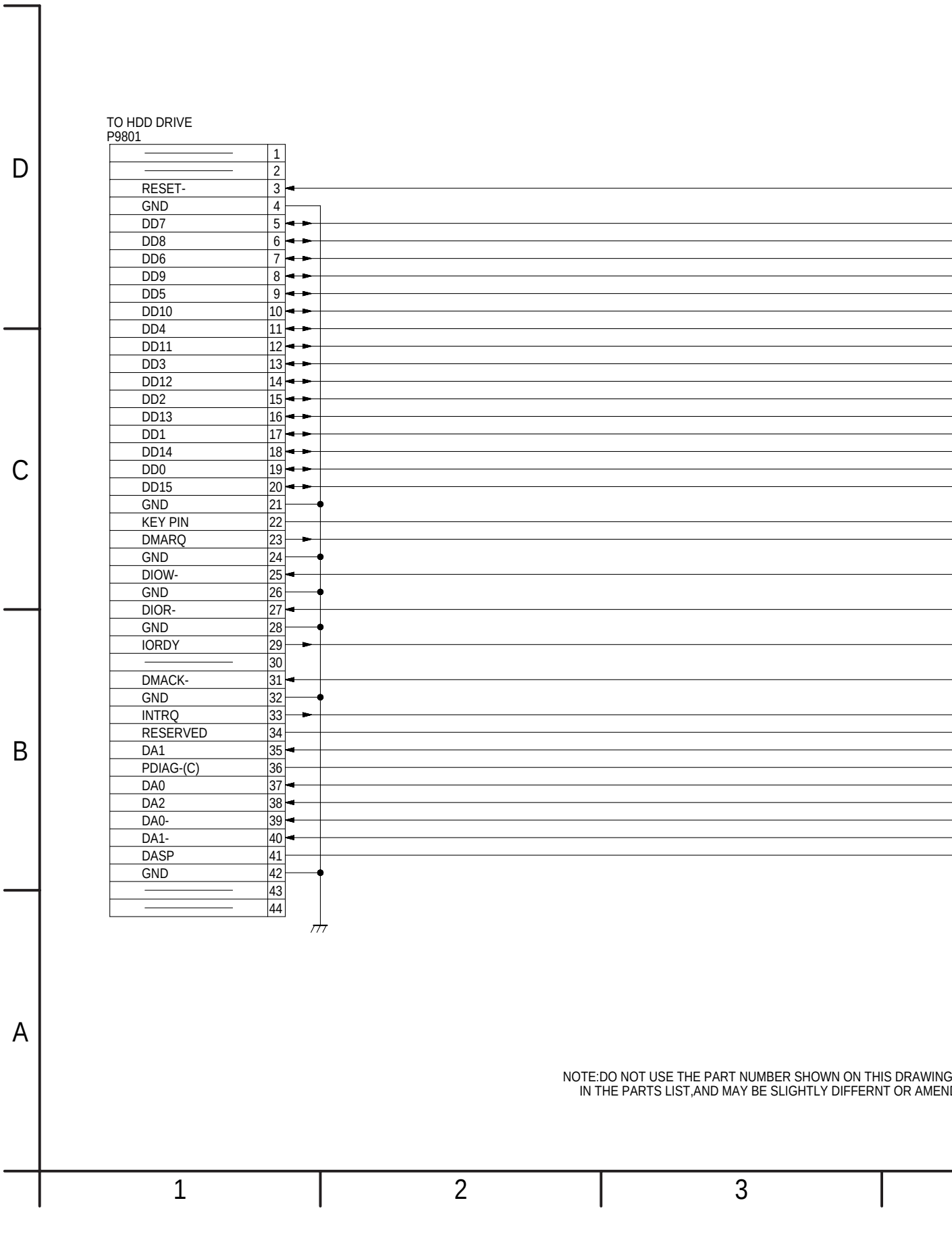


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

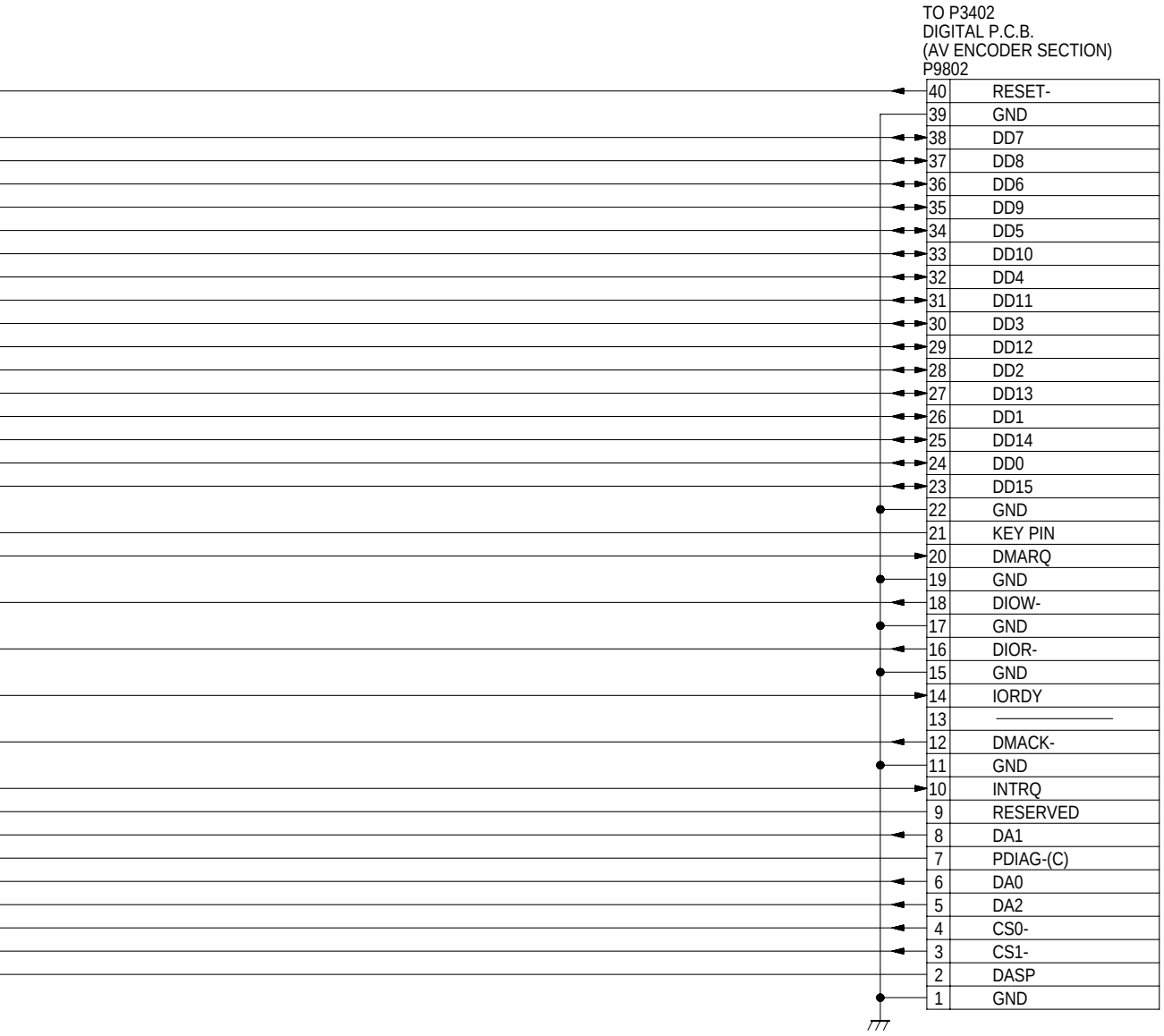
DMR-E80H P/PC
Glue Section
(Digital P.C.B.(6/6))
Schematic Diagram(G)

18 19 20 21 22

14.14. ATAPI Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENI

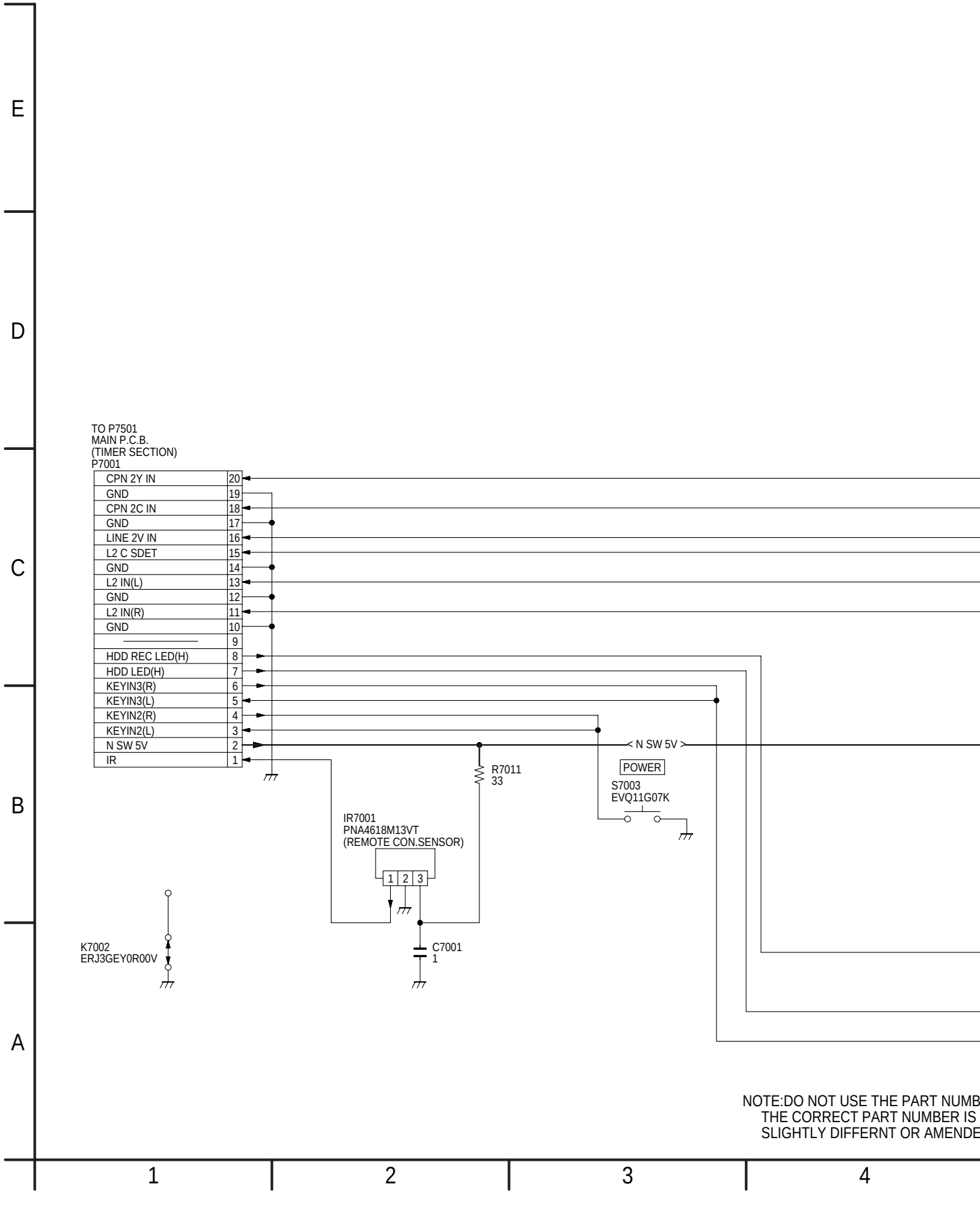


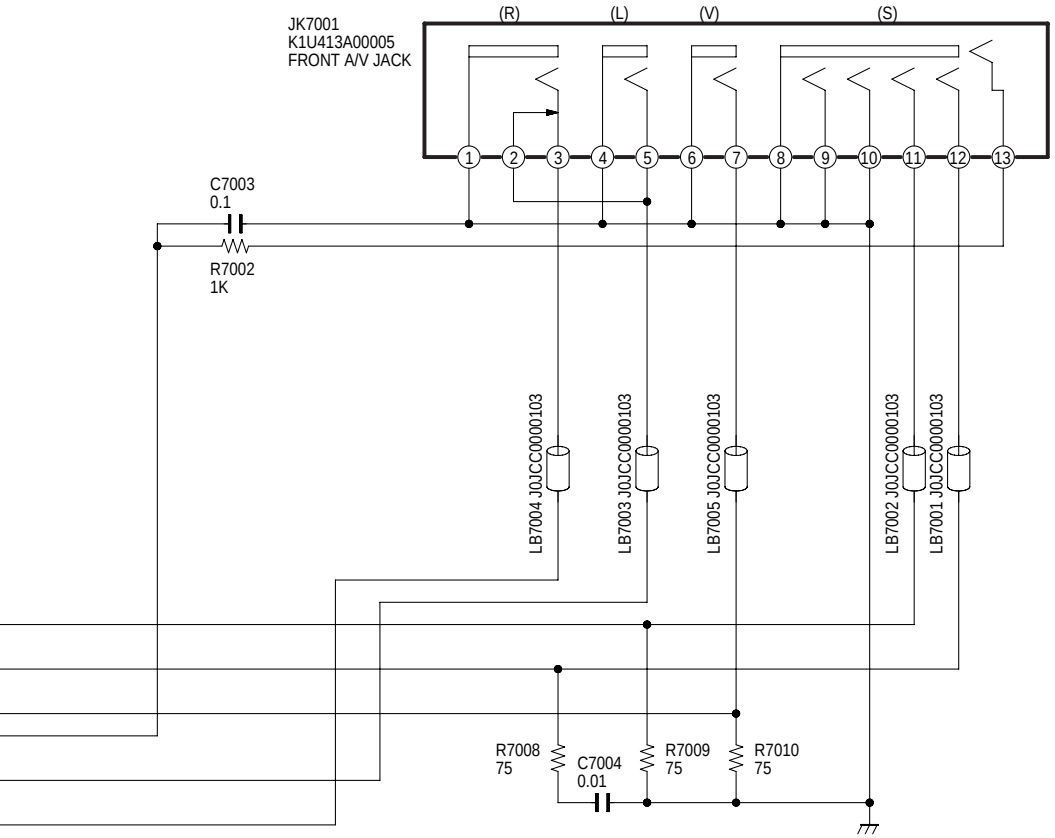
ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
FFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

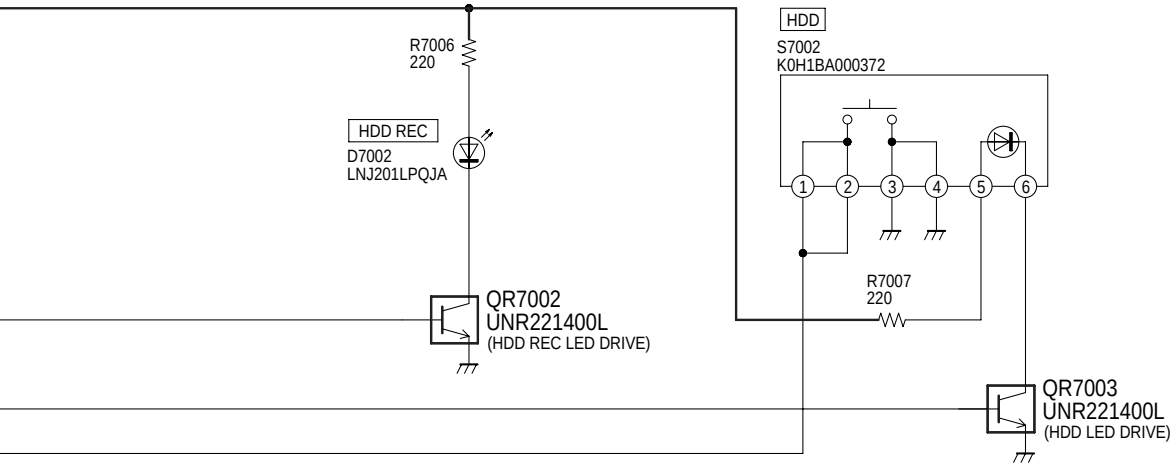
DMR-E80H P/PC
ATAPI Schematic Diagram

4 5 6

14.15. Front (L) Schematic Diagram





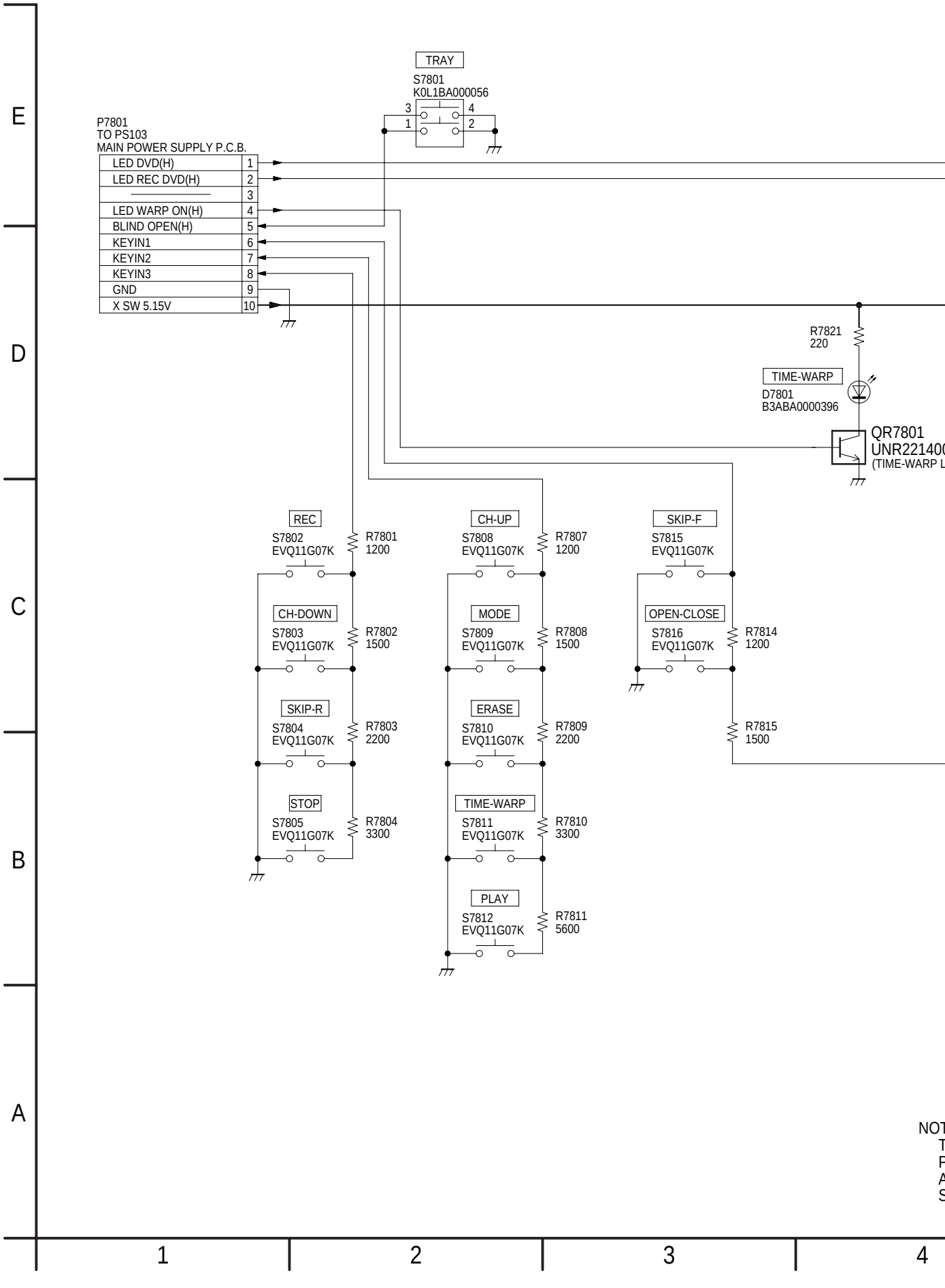


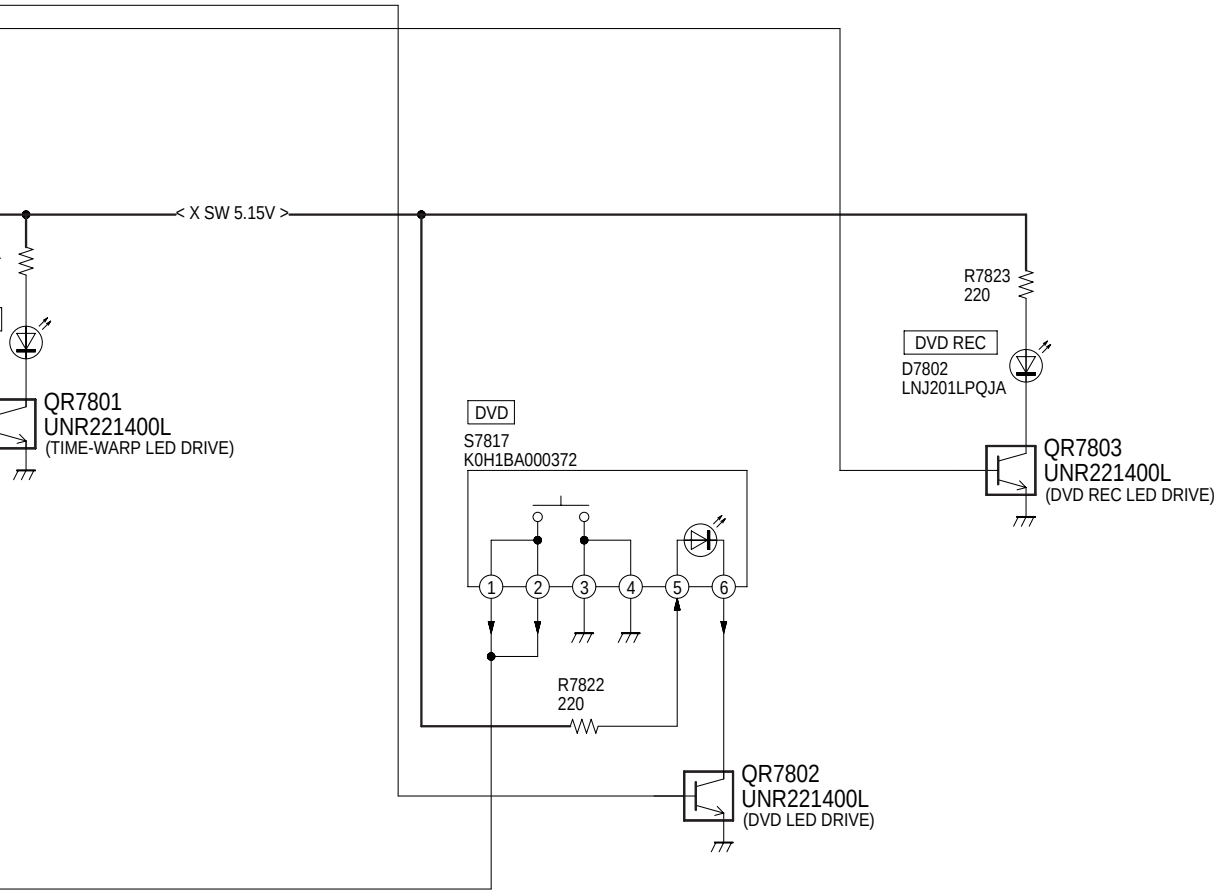
HE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
RT NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
NT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Front(L) Schematic Diagram

5 | 6 | 7

14.16. Front (R) Schematic Diagram





NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Front(R) Schematic Diagram

4	5	6	7

Ref No.	P9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.6	3.2	0	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.1	0	1.0	0	1.2
PLAY	1.6	3.2	0	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.1	0	1.0	0	1.2
STOP	1.6	3.2	0	4.9	4.9	0	-	0	-	0	-	0	-	0	1.1	1.1	0	1.0	0	1.2

Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.5	0	1.6	0.2	0.2	0	1.6	0	1.9										
PLAY	0	1.5	0	1.6	0.3	0.1	0	1.6	0	1.9										
STOP	0	1.5	0	1.6	0.3	0.1	0	1.6	0	1.9										

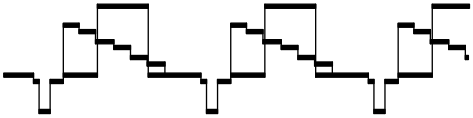
Ref No.	P9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.3	6.6	1.5	1.8	1.8	0	4.8	0	3.2	0	2.5	0	2.5	0	0	1.6	0	2.5	0
PLAY	5.0	3.3	6.6	1.5	1.8	1.8	0	4.8	0	3.2	0	2.5	0	2.5	0	0	1.6	0	2.5	0
STOP	5.0	3.3	6.6	1.5	1.8	1.8	0	4.8	0	3.2	0	2.5	0	2.5	0	0	1.6	0	2.5	0

Ref No.	P9002																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.3	0	0	1.8	1.5	6.6	3.3	5.0										
PLAY	2.5	5.0	2.3	0	0	1.8	1.5	6.6	3.3	5.0										
STOP	2.5	5.0	2.3	0	0	1.8	1.5	6.5	3.3	5.0										

Ref No.	P9003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.8	5.0	-	3.2	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	4.9	-	-	0
PLAY	0	4.8	5.0	-	3.3	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	5.0	-	-	0
STOP	0	4.8	5.0	-	3.3	5.0	-	5.0	0.1	5.0	0.1	-	0	0	3.3	3.3	4.9	-	-	0

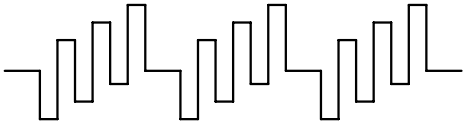
Ref No.	P9003																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	5.0	5.0	-	4.9	5.0	5.0	-	-	-										
PLAY	5.0	5.0	5.0	-	4.9	2.4	5.0	-	-	-										
STOP	5.0	5.0	5.0	-	4.9	0.2	5.0	-	-	-										

WF No. P9001-15 (REC/PLAY)



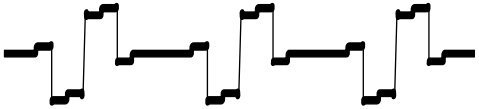
1.2Vp-p(20usec/div)

WF No. P9001-16 (REC/PLAY)



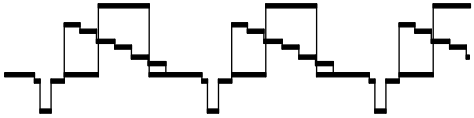
0.6Vp-p(20usec/div)

WF No. P9001-18 (REC/PLAY)



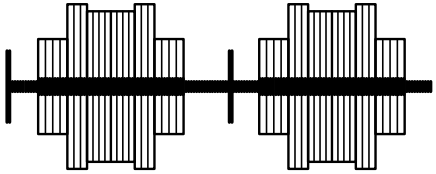
0.6Vp-p(20usec/div)

WF No. P9001-20 (REC/PLAY)



1.2Vp-p(20usec/div)

WF No. P9001-22 (REC/PLAY)



0.7Vp-p(20usec/div)

WF No. P9001-28 (REC/PLAY)

2.2Vp-p(20usec/div)

WF No. P9002-12 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. P9002-14 (REC/PLAY)

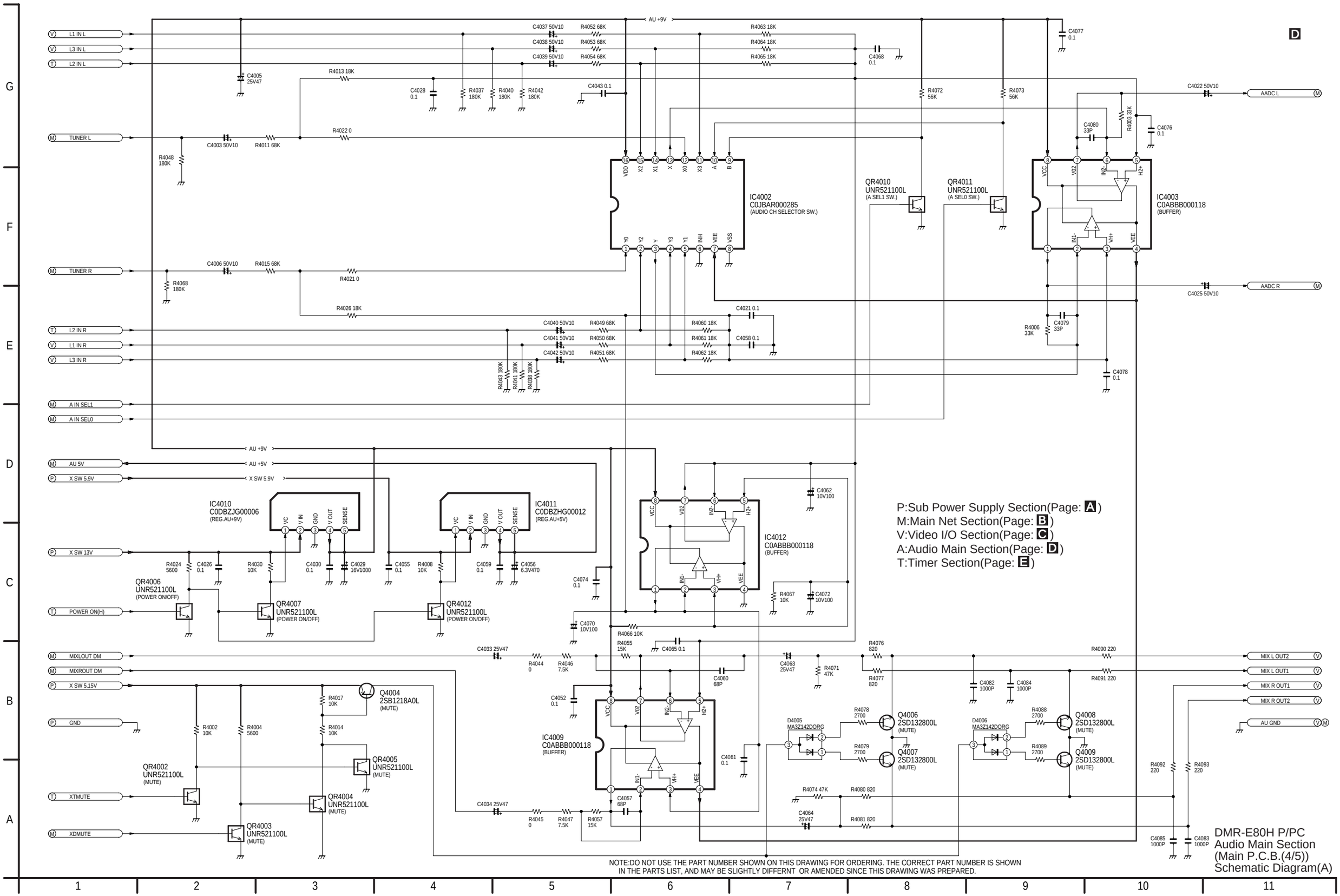
1.8Vp-p(1msec/div)

WF No. P9002-21 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. P9002-19 (REC/PLAY)

1.8Vp-p(1msec/div)


L1 IN L
L3 IN L
L2 IN L
TUNER L
TUNER R
L2 IN R
L1 IN R
L3 IN R
A IN SEL1
A IN SEL0
AU 5V
X SW 5.9V
X SW 13V
POWER ON(H)
MIXLOUT DM
MIXROUT DM
X SW 5.15V
GND
XTMUTE
XDMUTE
AU +9V
AU +5V
AADC L
AADC R
MIX L OUT2
MIX L OUT1
MIX R OUT1
MIX R OUT2
AU GND
IC4002 C0JBAR000285 (AUDIO CH SELECTOR SW.)
IC4003 C0ABBB000118 (BUFFER)
IC4009 C0ABBB000118 (BUFFER)
IC4010 C0DBZJG00006 (REG.AU+9V)
IC4011 C0DBZHG00012 (REG.AU+5V)
IC4012 C0ABBB000118 (BUFFER)
QR4010 UNR521100L (A SEL1 SW.)
QR4011 UNR521100L (A SEL0 SW.)
QR4002 UNR521100L (MUTE)
QR4003 UNR521100L (MUTE)
QR4004 UNR521100L (MUTE)
QR4005 UNR521100L (MUTE)
QR4006 UNR521100L (POWER ON/OFF)
QR4007 UNR521100L (POWER ON/OFF)
QR4012 UNR521100L (POWER ON/OFF)
Q4004 2SB1218A0L (MUTE)
Q4006 2SD132800L (MUTE)
Q4007 2SD132800L (MUTE)
Q4008 2SD132800L (MUTE)
Q4009 2SD132800L (MUTE)
D4005 MA3Z142DORG
D4006 MA3Z142DORG
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E80H P/PC
Audio Main Section
(Main P.C.B.(4/5))
Schematic Diagram(A)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

IC3
MN677551NA
(AVDEC)

DMR-E80H P/PC
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
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S:System Control Section(Page: J)
G:Glue Section(Page: K)

D3.3V
C-LINE
C1
FL8 F1H0J1050018
FL5 F1H0J1050018
FL9 F1H0J1050018
FL6 F1H0J1050018
RA13 22(X4)
RA14 22(X4)
RA9 22(X4)
RA10 22(X4)
RA15 22(X4)
RA16 22(X4)
RA11 22(X4)
RA12 22(X4)
IC4 C3ABPG000063 (16bit/64M SDRAM)
IC2 C3ABPG000063 (16bit/64M SDRAM)
R656DD7 R656DD6 R656DD5 R656DD4 R656DD3 R656DD2 R656DD1 R656DD0 (AI)
R656ENC0 R656ENC1 R656ENC2 R656ENC3 R656ENC4 R656ENC5 R656ENC6 R656ENC7 (AI)

IC1 C1DB00000895 (PLL)
FL1 F1H0J1050018
FL2 F1H0J1050018
FL7 F1H0J1050018
FL25 F1H0J1050018
LB1 J0JHC0000032
R53 47
R54 47
R16 47
R4 47
R55 47
R2 47
R3 47
IC5 C0JBAR000332 (CLOCK OUT)
R21 22
R17 39
R33 0
R44 0
IC6 C0JBAB000474 (CLOCK OUT)
R52 0
R18 0
FL16 F1H0J1050018
LB3 ERJ3GEY0R00V
C15 6V22
IC15 C0CBCBD00002 (REG.D+3.3V)
C14 0.1
FL28 F1H0J1050018
IC14 C0JBAF000206 (DUAL FLIP-FLOP)
R58 22
R60 0
R41 0
CLK54A1 (AI)
MCLK27 (AI)
X1DA LP (G)
DEC SCK (S)
DEC SDTO (S)
XDMUTE (DN)
AMUTE (G)
MIXROUT DM (DN)
MIXLOUT DM (DN)
R47 0 1DALRCK (G)
R46 0 1DADATA (G)
R45 0 1DABCK (G)
D 5V (DN)
IC10 C0FBBK000035 (AUDIO D/A CONVERTER)
C25 0.1
C26 16V10
LB6 J0JGC0000020
C13 0.1
IC13 C0JBAD000107 (XDMUTE OUT)
C27 16V10
C28 0.1
IC11 C0CBCBD00002 (REG.DAC+3.3V)
COUT DM (DN)
YOUT DM (DN)
RPROUT DM (DN)
BPBOUT DM (DN)
GPYOUT DM (DN)
FL21 F1H0J1050018
LB4 J0JHC0000032
C18 6V100
C16 0.1
AU 5V (AI)
DAC 3.3V (AI)
ANA 3.3V (DN)
ANA3.3V
D3.3V
J-LINE

DMR-E80H P/PC
AV Decoder Section(Digital P.C.B.(4/6)) Schematic Diagram(AD)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

REF.NO.50000 SERIES

DMR-E80H P/PC
AV Decoder Section
(Digital P.C.B.(4/6))
Schematic Diagram(AD)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
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DMR-E80H P/PC
AV Input Section(Digital P.C.B.(2/6)) Schematic Diagram(AI)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

IC3203
MN673744
(VAD CON)

DMR-E80H P/PC
AV Input Section(Digital P.C.B.(2/6)) Schematic Diagram(AI)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E80H P/PC
AV Input Section
(Digital P.C.B.(2/6))
Schematic Diagram(AI)

:REC SIGNAL

:PB SIGNAL

IC3005
(VIDEO DRIVER)

FROM DIGITAL BLOCK SECTION

P9001 22 / PP9701 22 — C OUT DM — Q3001 AMP — CIN (3) — 1.5-6M BPF — CTRAP
P9001 20 / PP9701 20 — Y OUT DM — Q3002 AMP — YIN (5) — 6M LPF — YTRAP
P9001 15 / PP9701 15 — G PYOUT DM — Q3003 AMP — PYIN (8) — 12M LPF — PYTRAP
P9001 16 / PP9701 16 — B PBOUT DM — Q3007,3008 AMP — PbIN (12) — 6M LPF
P9001 18 / PP9701 18 — R PROUT DM — Q3009,3010 AMP — PrIN (14) — 6M LPF

6dB → 75Ω

MUTE1 (2)
MUTE2 (15)
(VIDEO MUTE(L)) — FROM TIMER (IC7501- (8))

COUT (32) — CPN C OUT
MIXOUT (30) (29) — CPS V OUT
YOUT (25) (24) — CPN Y OUT
PYOUT (22) (21) — G PY OUT
PbOUT (19) — B PB OUT
PrOUT (17) — R PR OUT

JK3902
A/V OUT
JACK

(13) VIDEO1
(14) VIDEO2
LINE OUT
(9) Y
(10) C — S1/S2 OUT 1
(3) Y
(4) C — S1/S2 OUT 2

JK3903
COMPONENT
VIDEO OUT

(20) Y(GREEN)
(19) PB (BLUE)
(18) PR (RED)

IC3003
(VIDEO AGC)

L1/L2/L3/DET OUT (29) — L123 SWIDE — TO TIMER IC7501- (3)
S1/S2 OUT (34)

TU7401
U/V TUNER PACK
VIDEO OUT (18) — Q7401 AMP — TU VIDEO IN — TUNER VIDEO IN (3)

JK3901
EXTERNAL A/V IN
JACK

L3 VIDEO IN (14) — JSB V IN — VIDEO3 IN (12)
L1 VIDEO IN (13) — LINE 1V IN — VIDEO1 IN (5)
S3 DET (16)
C (4) — MUSE C IN — C3 IN (17)
Y (3) — MUSE Y IN — Y3 IN (14)
L3 S-VIDEO IN — C/S DET3 — C/S DET3 (13)
S1 DET (9)
C (10) — CPN 1C IN — C1 IN (10)
Y (9) — CPN 1Y IN — Y1 IN (7)
L1 S-VIDEO IN (11) — C/S DET1 — C/S DET1 (6)

JK7001
FRONT JACK
L2

VIDEO IN (7) — P7001 16 / P7501 16 — L2 IN CPS — VIDEO2 IN (19)
S2 DET (23)
C (12) — P7001 18 / P7501 18 — L2 IN CPNC — C2 IN (24)
Y (11) — P7001 20 / P7501 20 — L2 IN CPNY — Y2 IN (21)
S-VIDEO IN (13) — P7001 15 / P7501 15 — L2 C SDET — C/S DET2 (20)

SLICER VIDEO (42) — Q3004-Q3006 AMP — Q3012,QR3011 EXT SYNC (H)OUT — EXT SYNC(H) — IC7501- (16) TO TIMER

IC3002
(DATA SLICE)

Q3015 AMP — CVIN (26)
SIN (19)
X3001 14.3MHz — XOUT (20)

SOUT (11) — CC DATAI — PP9703 11 / P9003 11
CS (9) — XCC CS2 — PP9703 10 / P9003 10
SIN (12) — CC DATAO — PP9703 9 / P9003 9
SCLK (10) — CC SCLK — PP9703 8 / P8003 8
TO/FROM DIGITAL P.C.B. (GLUE SEC.)

COUT (38) — CPNCIN DM — PP9701 30 / P9001 30
Y/V OUT (44) — V YIN DM — PP9701 28 / P9001 28
CLAMP DC (47) — CLAMP DC — PP9701 25 / P9001 25
TO/FROM DIGITAL BLOCK SECTION

DMR-E80H P/PC
Analog Video Block Diagram

TO HDD DRIVE
P9801

———	1	
———	2	
RESET-	3	
GND	4	
DD7	5	
DD8	6	
DD6	7	
DD9	8	
DD5	9	
DD10	10	
DD4	11	
DD11	12	
DD3	13	
DD12	14	
DD2	15	
DD13	16	
DD1	17	
DD14	18	
DD0	19	
DD15	20	
GND	21	
KEY PIN	22	
DMARQ	23	
GND	24	
DIOW-	25	
GND	26	
DIOR-	27	
GND	28	
IORDY	29	
———	30	
DMACK-	31	
GND	32	
INTRQ	33	
RESERVED	34	
DA1	35	
PDIAG-(C)	36	
DA0	37	
DA2	38	
DA0-	39	
DA1-	40	
DASP	41	
GND	42	
———	43	
———	44	

TO P3402
DIGITAL P.C.B.
(AV ENCODER SECTION)
P9802

40		RESET-
39		GND
38		DD7
37		DD8
36		DD6
35		DD9
34		DD5
33		DD10
32		DD4
31		DD11
30		DD3
29		DD12
28		DD2
27		DD13
26		DD1
25		DD14
24		DD0
23		DD15
22		GND
21		KEY PIN
20		DMARQ
19		GND
18		DIOW-
17		GND
16		DIOR-
15		GND
14		IORDY
13		———
12		DMACK-
11		GND
10		INTRQ
9		RESERVED
8		DA1
7		PDIAG-(C)
6		DA0
5		DA2
4		CS0-
3		CS1-
2		DASP
1		GND

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
ATAPI Schematic Diagram

D C B A

1 2 3 4 5 6

:REC SIGNAL :PB SIGNAL

IC6701
(GLUE)

DIGITAL P.C.B.

IC4002
(AUDIO CH SELECTOR SW)

TU7401
U/V TUNER PACK
L OUT 27
R OUT 26
TUNER L
TUNER R
TUNER L 12
TUNER R 1

JK3901
EXTERNAL A/V JACK
AUDIO IN
L L1 16
L L3 17
R L1 19
R L3 20
L1 IN L
L3 IN L
L1 IN R
L3 IN R
L1 IN L 11
L3 IN L 14
L1 IN R 4
L3 IN R 5

JK7001
FRONT A/V JACK
AUDIO IN
L/MONO 5
R 3
2
P7001 13 | P7501 13 L2 IN L
P7001 11 | P7501 11 L2 IN R
L2 IN L 15
L2 IN R 2

QR4010
A.SEL1 SW (L)OUT
B 9
A IN SEL1
PP9702 10 | P9002 10
ODATA10 130

QR4011
A.SEL0 SW (L)OUT
A 10
A IN SEL0
PP9702 11 | P9002 11
ODATA9 129

IC4003
(BUFFER)
AUDIO L 13
AUDIO R 3
6 7 2 1
A ADC L
A ADC R
PP9702 12 | P9002 12
PP9702 14 | P9002 14
TO DIGITAL BLOCK SECTION

FROM TIMER IC7501- 20
XTMUTE
QR4002,4005 SWITCH
Q4004 MUTE (H)OUT
FROM DIGITAL P.C.B. (AVDEC SEC.IC50013- 4)
P9002 23 | PP9702 23 XDMUTE
QR4003,4004 SWITCH

D4005
D4006
Q4007 MUTE
Q4006 MUTE
Q4009 MUTE
Q4008 MUTE

IC4009
(BUFFER)
FROM DIGITAL BLOCK SECTION
P9002 21 | PP9702 21 MIX L OUT DM
P9002 19 | PP9702 19 MIX R OUT DM
6 7 2 1
MIX L OUT1
MIX L OUT2
MIX R OUT1
MIX R OUT2

JK3902
A/V OUT REAR JACK
OUT1-L 16
OUT2-L 17
OUT1-R 19
OUT2-R 20
AUDIO

P9002 17 | PP9702 17 IECOUT

JK3903
DIGITAL AUDIO OUT (PCM/BITSTREAM)
OPTICAL 23

DMR-E80H P/PC
Analog Audio Block Diagram

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3202 / V-PROCESSOR	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656AIO0	35	R656IN0
	R656OUT1	140	R656AIO1	34	R656IN1
	R656OUT2	139	R656AIO2	33	R656IN2
	R656OUT3	138	R656AIO3	32	R656IN3
	R656OUT4	135	R656AIO4	29	R656IN4
	R656OUT5	134	R656AIO5	28	R656IN5
	R656OUT6	133	R656AIO6	27	R656IN6
	R656OUT7	132	R656AIO7	26	R656IN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3406 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	CDO0	16	EC1DT0
	CDO1	64	CDO1	17	EC1DT1
	CDO2	65	CDO2	18	EC1DT2
	CDO3	67	CDO3	19	EC1DT3
	CDO4	68	CDO4	20	EC1DT4
	CDO5	69	CDO5	21	EC1DT5
	CDO6	72	CDO6	22	EC1DT6
	CDO7	73	CDO7	23	EC1DT7

TC	IC3406 / RTSC		SIGNAL NAME	P3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	122	RAMD0	24	DD0
	S1DB1	124	RAMD1	26	DD1
	S1DB2	127	RAMD2	28	DD2
	S1DB3	129	RAMD3	30	DD3
	S1DB4	135	RAMD4	32	DD4
	S1DB5	137	RAMD5	34	DD5
	S1DB6	140	RAMD6	36	DD6
	S1DB7	142	RAMD7	38	DD7
	S1DB8	141	RAMD8	37	DD8
	S1DB9	139	RAMD9	35	DD9
	S1DB10	136	RAMD10	33	DD10
	S1DB11	134	RAMD11	31	DD11
	S1DB12	128	RAMD12	29	DD12
	S1DB13	126	RAMD13	27	DD13
	S1DB14	123	RAMD14	25	DD14
	S1DB15	121	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3406 / RTSC		SIGNAL NAME	IC3403,IC3404/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	144	MADQB0	2	DQ0
	MDQ1	146	MADQB1	4	DQ1
	MDQ2	148	MADQB2	5	DQ2
	MDQ3	151	MADQB3	7	DQ3
	MDQ4	155	MADQB4	8	DQ4
	MDQ5	157	MADQB5	10	DQ5
	MDQ6	159	MADQB6	11	DQ6
	MDQ7	161	MADQB7	13	DQ7
	MDQ8	162	MADQB8	42	DQ8
	MDQ9	160	MADQB9	44	DQ9
	MDQ10	158	MADQB10	45	DQ10
	MDQ11	156	MADQB11	47	DQ11
	MDQ12	154	MADQB12	48	DQ12
	MDQ13	150	MADQB13	50	DQ13
	MDQ14	147	MADQB14	51	DQ14
	MDQ15	145	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22, TC 23)

TC	IC3202/V-PROCESSOR		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	23	R656ENC0	138	VDIN0
	R656OUT1	22	R656ENC1	137	VDIN1
	R656OUT2	21	R656ENC2	136	VDIN2
	R656OUT3	20	R656ENC3	134	VDIN3
	R656OUT4	17	R656ENC4	133	VDIN4
	R656OUT5	16	R656ENC5	132	VDIN5
	R656OUT6	15	R656ENC6	130	VDIN6
	R656OUT7	14	R656ENC7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3406 / RTSC		SIGNAL NAME	IC50003 / AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	STD0	40	STD0	88	STD0
	STD1	39	STD1	87	STD1
	STD2	38	STD2	86	STD2
	STD3	37	STD3	85	STD3
	STD4	36	STD4	84	STD4
	STD5	35	STD5	83	STD5
	STD6	34	STD6	82	STD6
	STD7	33	STD7	81	STD7

TC	IC6701 / GLUE		SIGNAL NAME	IC6704 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	29	D0
	ECCD1	70	DE1	30	D1
	ECCD2	69	DE2	31	D2
	ECCD3	68	DE3	32	D3
	ECCD4	71	DE4	41	D4
	ECCD5	74	DE5	42	D5
	ECCD6	73	DE6	43	D6
	ECCD7	72	DE7	44	D7

TC	IC50003 / AV DEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
22	VDOUT0	140	R656DD0	155	R656IN0
	VDOUT1	141	R656DD1	154	R656IN1
	VDOUT2	142	R656DD2	153	R656IN2
	VDOUT3	143	R656DD3	152	R656IN3
	VDOUT4	145	R656DD4	151	R656IN4
	VDOUT5	146	R656DD5	150	R656IN5
	VDOUT6	147	R656DD6	149	R656IN6
	VDOUT7	149	R656DD7	148	R656IN7

TC	IC3202/V-PROCESSOR		SIGNAL NAME	IC3402/AV ENC	
	Port Name	Pin No		Pin No	Port Name
23	R656OUT0	23	R656ENC0	17	VIN0
	R656OUT1	22	R656ENC1	18	VIN1
	R656OUT2	21	R656ENC2	20	VIN2
	R656OUT3	20	R656ENC3	21	VIN3
	R656OUT4	17	R656ENC4	23	VIN4
	R656OUT5	16	R656ENC5	24	VIN5
	R656OUT6	15	R656ENC6	25	VIN6
	R656OUT7	14	R656ENC7	26	VIN7

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC24)

TC	20-1		12-3		17-1		18		19-1		24	
SIGNAL NAME	IC6004/MAIN CPU		IC3406 / RTSC		IC6701/GLUE		IC6007 / BUFFER		IC6006 / LOADER		IC50003 / AVDEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-
SA8	194	SA8	63	HMADR8	-	-	-	-	4	A7	41	HA8
SA9	195	SA9	71	HMADR9	-	-	-	-	42	A8	42	HA9
SA10	196	SA10	72	HMADR10	-	-	-	-	41	A9	43	HA10
SA11	197	SA11	73	HMADR11	-	-	-	-	40	A10	45	HA11
SA12	198	SA12	74	HMADR12	-	-	-	-	39	A11	46	HA12
SA13	199	SA13	76	HMADR13	-	-	-	-	38	A12	47	HA13
SA14	200	SA14	77	HMADR14	-	-	-	-	37	A13	49	HA14
SA15	201	SA15	78	HMADR15	-	-	-	-	36	A14	50	HA15
SA16	205	SA16	79	HMADR16	-	-	-	-	35	A15	51	HA16
SA17	206	SA17	80	HMADR17	-	-	-	-	34	A16	54	HA17
SA18	207	SA18	-	-	-	-	-	-	3	A17	-	-
SA19	208	SA19	-	-	-	-	-	-	-	-	-	-
SA20	209	SA20	-	-	-	-	-	-	-	-	-	-
SA21	210	SA21	-	-	-	-	-	-	-	-	-	-
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2)

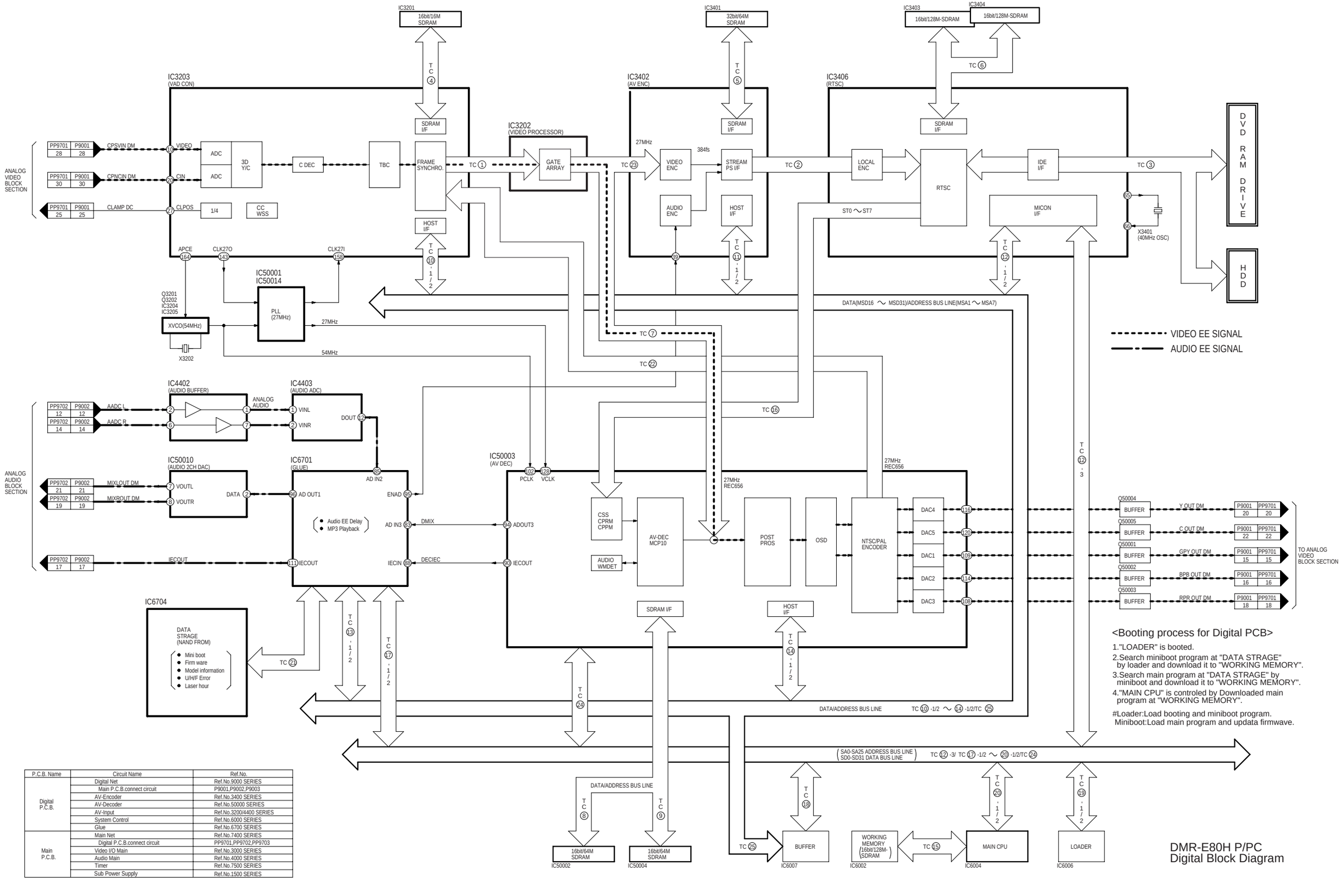
TC	20-2		17-2		19-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI0	15	D0
SD17	136	SD17	200	LDTI1	17	D1
SD18	137	SD18	199	LDTI2	19	D2
SD19	138	SD19	202	LDTI3	21	D3
SD20	139	SD20	197	LDTI4	24	D4
SD21	140	SD21	196	LDTI5	26	D5
SD22	141	SD22	198	LDTI6	28	D6
SD23	142	SD23	195	LDTI7	30	D7
SD24	144	SD24	194	LDTI8	16	D8
SD25	145	SD25	192	LDTI9	18	D9
SD26	146	SD26	191	LDTI10	20	D10
SD27	147	SD27	189	LDTI11	22	D11
SD28	148	SD28	190	LDTI12	25	D12
SD29	149	SD29	188	LDTI13	27	D13
SD30	150	SD30	187	LDTI14	29	D14
SD31	151	SD31	185	LDTI15	31	D15

MSD16 - MSD31 DATA BUS LINE (TC10-1, TC13-1, TC14-1, TC11-1, TC12-1)

TC	10-1		13-1		14-1		11-1		12-1	
SIGNAL NAME	IC3203/VAD CON		IC6701/GLUE		IC50003/AVDEC		IC3402/ENC		IC3406/RTSC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	12	LDEV0	55	HD0	81	HD0	105	HMDT16
MSD17	128	MDA1	13	LDEV1	56	HD1	82	HD1	104	HMDT17
MSD18	127	MDA2	11	LDEV2	57	HD2	85	HD2	102	HMDT18
MSD19	126	MDA3	10	LDEV3	59	HD3	86	HD3	101	HMDT19
MSD20	124	MDA4	7	LDEV4	60	HD4	88	HD4	100	HMDT20
MSD21	123	MDA5	8	LDEV5	61	HD5	89	HD5	98	HMDT21
MSD22	122	MDA6	9	LDEV6	63	HD6	90	HD6	97	HMDT22
MSD23	121	MDA7	14	LDEV7	64	HD7	92	HD7	96	HMDT23
MSD24	118	MDA8	2	LDEV8	65	HD8	93	HD8	94	HMDT24
MSD25	117	MDA9	4	LDEV9	67	HD9	94	HD9	93	HMDT25
MSD26	116	MDA10	3	LDEV10	68	HD10	97	HD10	92	HMDT26
MSD27	115	MDA11	208	LDEV11	70	HD11	98	HD11	87	HMDT27
MSD28	113	MDA12	207	LDEV12	72	HD12	99	HD12	86	HMDT28
MSD29	112	MDA13	6	LDEV13	73	HD13	101	HD13	85	HMDT29
MSD30	111	MDA14	205	LDEV14	74	HD14	102	HD14	83	HMDT30
MSD31	110	MDA15	203	LDEV15	76	HD15	103	HD15	82	HMDT31

MSA1 - MSA7 ADDRESS BUS LINE (TC25, TC10-2, TC13-2, TC14-2, TC11-2, 12-2)

TC	25		10-2		13-2		14-2		11-2		12-2	
SIGNAL NAME	IC6007/16bit BUFFER		IC3203/VAD CON		IC6701/GLUE		IC50003/AVDEC		IC3402/ENC		IC3406/RTSC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	167	ADRL1	32	HA1	106	HA0	55	HMADR1
MSA2	22	4Y3	106	MAD1	164	ADRL2	33	HA2	107	HA1	56	HMADR2
MSA3	20	4Y2	105	MAD2	165	ADRL3	35	HA3	108	HA2	57	HMADR3
MSA4	19	4Y1	104	MAD3	166	ADRL4	36	HA4	109	HA3	58	HMADR4
MSA5	17	3Y4	103	MAD4	163	ADRL5	37	HA5	105	HA4	60	HMADR5
MSA6	16	3Y3	102	MAD5	170	ADRL6	38	HA6	-	-	61	HMADR6
MSA7	14	3Y2	101	MAD6	168	ADRL7	40	HA7	-	-	62	HMADR7



<Booting process for Digital PCB>

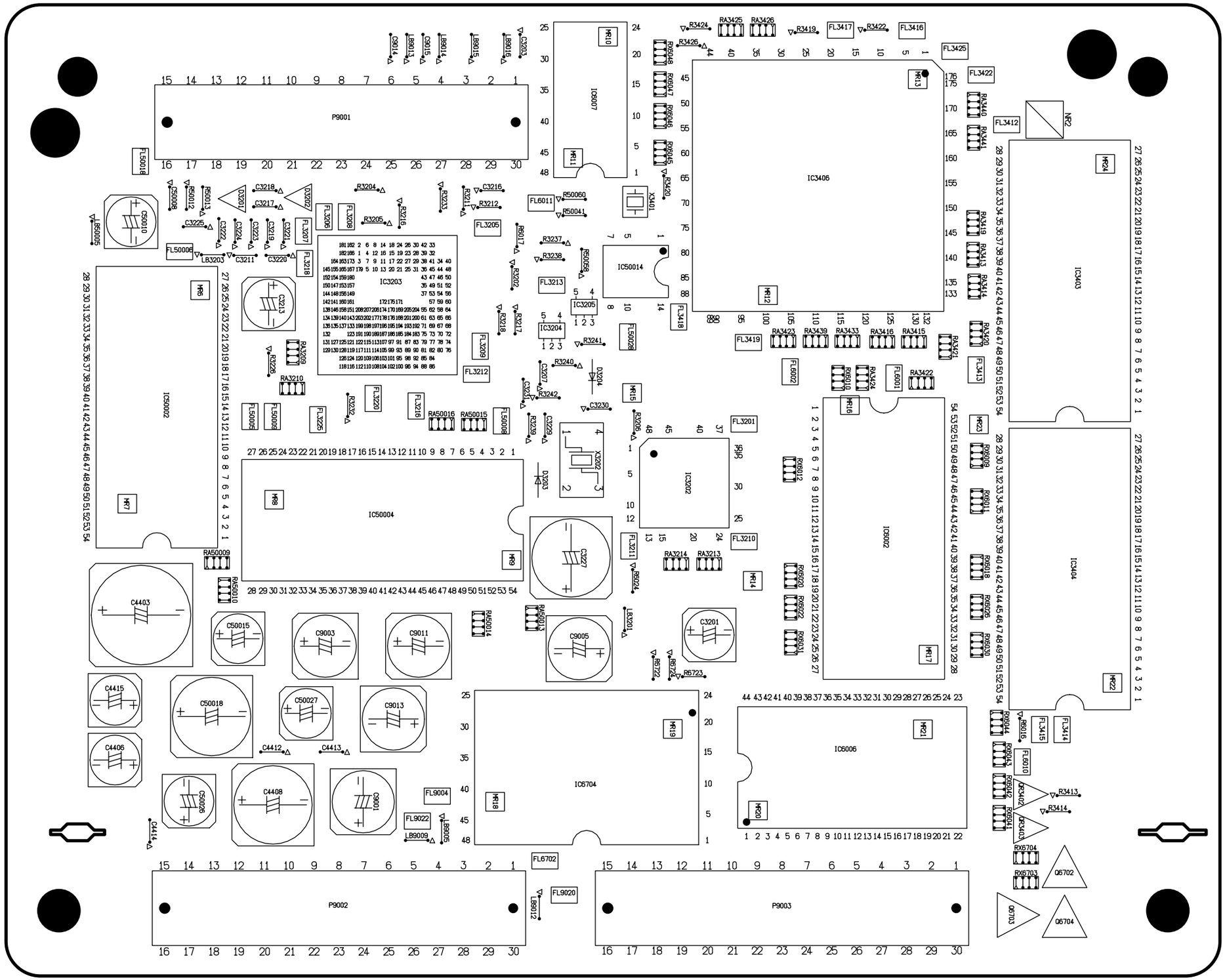
1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	P9001,P9002,P9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
Main P.C.B.	Main Net	Ref.No.7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Video I/O Main	Ref.No.3000 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES
	Sub Power Supply	Ref.No.1500 SERIES

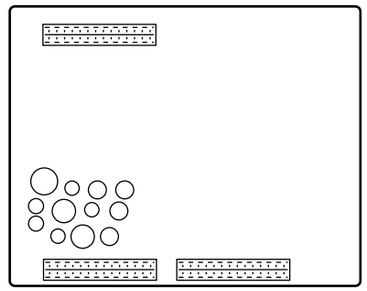
DMR-E80H P/PC Digital Block Diagram

DIGITAL P.C.B.



(COMPONENT SIDE)

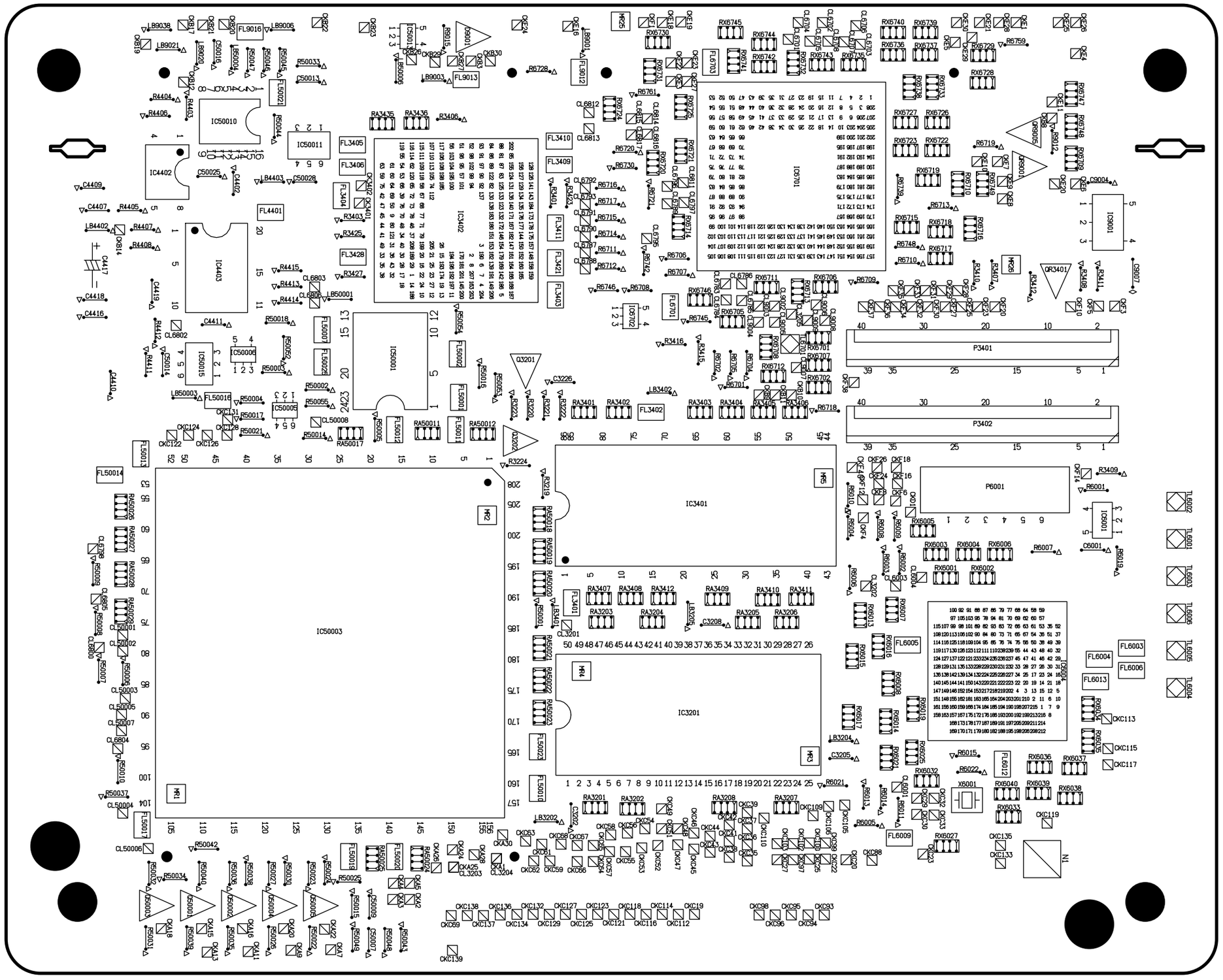
OVER VIEW



*IC6704 is not supplied in the form of an individual part. When replacing, be sure to replace the digital p.c.b. and not IC6704 singly.

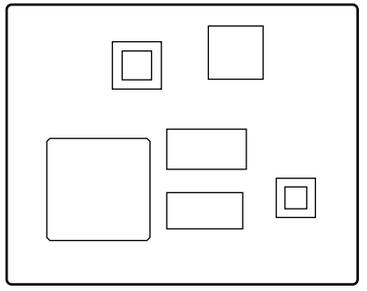
DMR-E80H P (REP3496F)
DMR-E80H PC (REP3496FG)
Digital P.C.B. (Component Side)

DIGITAL P.C.B.



(FOIL SIDE)

OVER VIEW

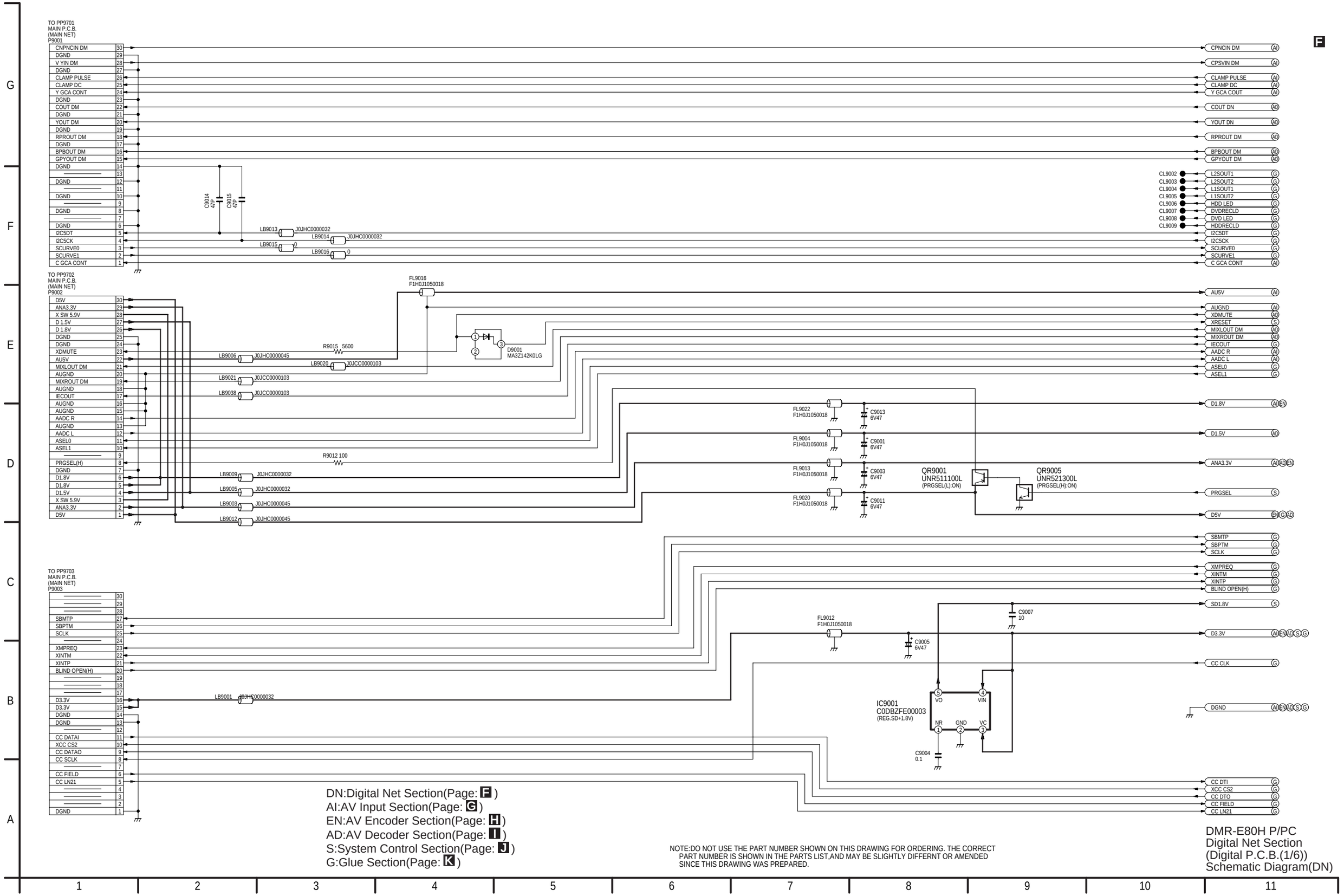


DMR-E80H P (REP3496F)
DMR-E80H PC (REP3496FG)
Digital P.C.B. (Foil Side)

DIGITAL P.C.B.

Integrated Circuit			CKB19	F-2	F	CKC127	A-4	F	CL6708	F-5	F	LB9003	F-3	F	FL50009	D-2	C	R3204	E-3	C	R6707	E-4	F	RA3202	B-4	F	RX6019	B-6	F
IC3201	B-5	F	CKB20	F-2	F	CKC128	D-2	F	CL6783	E-5	F	LB9005	B-3	C	FL50010	B-4	F	R3205	E-3	C	R6708	E-4	F	RA3203	C-4	F	RX6020	C-5	C
IC3202	D-5	C	CKB21	F-2	F	CKC129	A-4	F	CL6784	E-5	F	LB9006	F-2	F	FL50011	D-3	F	R3206	D-4	C	R6709	E-6	F	RA3204	C-4	F	RX6021	B-6	F
IC3203	E-3	C	CKB22	F-2	F	CKC131	D-2	F	CL6785	E-5	F	LB9009	B-3	C	FL50012	D-3	F	R3211	E-3	C	R6710	E-6	F	RA3205	C-5	F	RX6022	C-5	C
IC3204	D-4	C	CKB23	F-3	F	CKC132	A-4	F	CL6786	E-5	F	LB9012	A-4	C	FL50013	D-1	F	R3212	E-3	C	R6711	E-4	F	RA3206	C-5	F	RX6025	B-6	F
IC3205	E-4	C	CKB26	F-3	F	CKC133	A-6	F	CL6787	E-4	F	LB9013	F-3	C	FL50014	D-1	F	R3216	E-3	C	R6712	E-4	F	RA3207	B-5	F	RX6026	C-6	C
IC3401	C-5	F	CKB27	F-3	F	CKC134	A-4	F	CL6788	E-4	F	LB9014	F-3	C	FL50016	D-2	F	R3217	D-4	C	R6713	E-6	F	RA3208	B-5	F	RX6027	B-6	F
IC3402	E-3	F	CKB29	F-3	F	CKC135	B-6	F	CL6789	E-4	F	LB9015	F-3	C	FL50017	B-2	F	R3218	D-3	C	R6714	E-4	F	RA3209	D-2	C	RX6030	C-6	C
IC3403	E-7	C	CKB30	F-3	F	CKC136	A-3	F	CL6790	E-4	F	LB9016	F-4	C	FL50018	E-2	C	R3219	D-4	F	R6715	E-4	F	RA3210	D-2	C	RX6031	C-5	C
IC3404	C-7	C	CKC19	A-5	F	CKC137	A-3	F	CL6791	E-4	F	LB9020	F-2	F	FL50019	A-3	F	R3220	D-4	F	R6716	E-4	F	RA3213	C-5	C	RX6032	B-6	F
IC3406	E-5	C	CKC20	A-5	F	CKC138	A-3	F	CL6792	E-4	F	LB9021	F-2	F	FL50020	A-3	F	R3221	D-4	F	R6717	E-4	F	RA3214	C-4	C	RX6033	B-6	F
IC4402	E-2	F	CKC22	A-5	F	CKC139	A-3	F	CL6793	E-4	F	LB9038	F-2	F	FL50021	F-2	F	R3222	D-4	F	R6718	D-5	F	RA3401	D-4	F	RX6034	B-7	F
IC4403	E-2	F	CKC23	A-6	F	CKD1	C-6	F	CL6795	E-4	F	LB50001	E-3	F	FL50023	B-4	F	R3223	D-4	F	R6719	E-6	F	RA3402	D-4	F	RX6035	B-7	F
IC6001	C-7	F	CKC25	A-5	F	CKE1	F-6	F	CL6796	E-4	F	LB50003	D-2	F	FL50025	D-3	F	R3224	D-4	F	R6720	E-4	F	RA3403	D-5	F	RX6036	B-6	F
IC6002	C-6	C	CKC27	A-5	F	CKE3	F-4	F	CL6797	E-5	F	LB50004	F-2	F	FL50028	D-4	C	R3226	D-2	C	R6721	E-4	F	RA3404	D-5	F	RX6037	B-7	F
IC6004	C-6	F	CKC29	B-6	F	CKE4	F-7	F	CL6798	C-1	F	LB50005	E-1	C	**Capacitor**			R3232	D-3	C	R6722	C-4	C	RA3405	D-5	F	RX6038	B-7	F
IC6006	B-5	C	CKC30	B-6	F	CKE5	F-6	F	CL6800	C-1	F	LB50006	F-3	F	C3201	C-5	C	R3233	E-3	C	R6723	C-5	C	RA3406	D-5	F	RX6039	B-6	F
IC6007	F-4	C	CKC32	B-6	F	CKE6	E-7	F	CL6802	D-2	F	**Filter**			C3202	B-4	F	R3237	E-4	C	R6724	C-4	C	RA3407	C-4	F	RX6040	B-6	F
IC6701	E-5	F	CKC33	B-6	F	CKE7	E-6	F	CL6803	E-2	F	FL3201	D-5	C	C3203	F-4	C	R3238	E-4	C	R6728	F-4	F	RA3408	C-4	F	RX6041	B-6	C
IC6702	D-4	F	CKC35	A-5	F	CKE8	E-6	F	CL6804	B-1	F	FL3205	E-3	C	C3205	B-5	F	R3239	D-4	C	R6730	E-4	F	RA3409	C-5	F	RX6042	B-6	C
IC6704	B-4	C	CKC36	B-5	F	CKE9	E-6	F	CL6805	C-1	F	FL3206	E-3	C	C3207	D-4	C	R3240	D-4	C	R6739	E-6	F	RA3410	C-5	F	RX6043	B-6	C
IC9001	E-7	F	CKC37	B-5	F	CKE10	E-6	F	CL6806	E-2	F	FL3207	E-2	C	C3208	C-5	F	R3241	D-4	C	R6742	E-4	F	RA3411	C-5	F	RX6044	B-6	C
IC50001	D-3	F	CKC38	A-5	F	CKE11	F-7	F	CL6811	E-5	F	FL3208	E-3	C	C3211	E-2	C	R3242	D-4	C	R6745	D-5	F	RA3412	C-4	F	RX6045	E-4	C
IC50002	D-2	C	CKC39	B-5	F	CKE16	F-4	F	CL6812	F-4	F	FL3209	D-3	C	C3213	E-2	C	R3401	E-4	F	R6746	E-4	F	RA3413	E-6	C	RX6046	F-4	C
IC50003	C-3	F	CKC41	B-5	F	CKE18	F-4	F	CL6813	F-4	F	FL3210	C-5	C	C3216	E-3	C	R3403	E-3	F	R6748	E-6	F	RA3414	E-6	C	RX6047	F-4	C
IC50004	C-3	C	CKC42	B-5	F	CKE19	F-4	F	CL6814	F-4	F	FL3211	C-4	C	C3217	E-2	C	R3406	F-3	F	R6759	F-6	F	RA3415	D-6	C	RX6048	F-4	C
IC50005	D-2	F	CKC43	B-5	F	CKE20	E-7	F	CL6815	F-4	F	FL3212	D-3	C	C3218	E-2	C	R3407	E-6	F	R6761	F-4	F	RA3416	D-6	C	RX6701	D-5	F
IC50006	D-2	F	CKC44	B-5	F	CKE21	F-6	F	CL6816	E-4	F	FL3213	E-4	C	C3219	E-2	C	R3408	E-7	F	R9012	E-7	F	RA3419	E-6	C	RX6702	D-5	F
IC50010	F-2	F	CKC45	B-5	F	CKE22	F-4	F	CL6817	E-4	F	FL3216	D-3	C	C3220	E-2	C	R3409	D-7	F	R9015	F-3	F	RA3420	D-6	C	RX6703	A-6	C
IC50011	E-2	F	CKC46	B-5	F	CKE23	F-5	F	CL9002	E-5	F	FL3218	E-2	C	C3221	E-2	C	R3410	E-6	F	R50001	C-4	F	RA3421	D-6	C	RX6704	B-6	C
IC50013	F-3	F	CKC47	B-4	F	CKE24	F-4	F	CL9003	E-5	F	FL3220	D-3	C	C3222	E-2	C	R3411	E-7	F	R50002	D-2	F	RA3422	D-6	C	RX6705	D-5	F
IC50014	E-4	C	CKC48	B-4	F	CKE25	F-7	F	CL9004	D-5	F	FL3225	D-2	C	C3223	E-2	C	R3412	E-6	F	R50003	D-2	F	RA3423	D-5	C	RX6706	E-5	F
IC50015	D-2	F	CKC49	B-4	F	CKE26	F-7	F	CL9005	D-5	F	FL3401	C-4	F	C3224	E-2	C	R3413	B-7	C	R50004	D-2	F	RA3424	D-6	C	RX6707	D-5	F
Transistor			CKC51	B-4	F	CKE27	F-5	F	CL9006	E-5	F	FL3402	D-4	F	C3225	E-2	C	R3414	B-7	C	R50005	D-3	F	RA3425	F-5	C	RX6708	D-5	F
Q3201	D-4	F	CKC52	B-4	F	CKE28	F-6	F	CL9007	D-5	F	FL3403	E-4	F	C3226	D-4	F	R3415	D-5	F	R50006	B-1	F	RA3426	F-5	C	RX6709	E-7	F
Q3202	D-4	F	CKC53	B-4	F	CKE29	F-6	F	CL9008	D-5	F	FL3404	E-3	F	C3227	C-4	C	R3416	D-4	F	R50007	C-1	F	RA3433	D-5	C	RX6710	E-6	F
Q6702	A-7	C	CKC54	B-4	F	CKE30	F-6	F	CL9009	D-5	F	FL3405	E-3	F	C3229	D-4	C	R3419	F-5	C	R50008	C-1	F	RA3435	F-3	F	RX6711	E-5	F
Q6703	A-6	C	CKC55	B-4	F	CKF1	F-4	F	CL50001	C-1	F	FL3406	E-3	F	C3230	D-4	C	R3420	E-4	C	R50009	C-1	F	RA3436	F-3	F	RX6712	D-5	F
Q6704	A-7	C	CKC56	B-4	F	CKF3	E-7	F	CL50002	C-1	F	FL3409	E-4	F	C3231	D-4	C	R3422	F-6	C	R50010	B-1	F	RA3439	D-5	C	RX6713	E-5	F
Q50001	A-2	F	CKC57	B-4	F	CKF4	C-6	F	CL50003	B-1	F	FL3410	E-4	F	C4402	E-2	F	R3423	E-4	F	R50012	E-2	C	RA3440	F-6	C	RX6714	E-4	F
Q50002	A-2	F	CKC58	B-4	F	CKF5	E-7	F	CL50004	B-1	F	FL3411	E-4	F	C4403	C-2	C	R3424	F-5	C	R50013	E-2	C	RA3441	E-6	C	RX6715	E-6	F
Q50003	A-2	F	CKC59	A-4	F	CKF6	C-6	F	CL50005	B-1	F	FL3412	F-6	C	C4406	B-1	C	R3425	E-3	F	R50014	D-2	F	RA50009	C-2	C	RX6716	E-6	F
Q50004	A-2	F	CKC61	B-4	F	CKF8	C-6	F	CL50006	B-2	F	FL3413	D-6	C	C4407	E-1	F	R3426	F-5	C	R50015	A-3	F	RA50010	C-2	C	RX6717	E-6	F
Q50005	A-2	F	CKC62	A-4	F	CKF10	E-7	F	CL50007	B-1	F	FL3414	B-7	C	C4408	B-2	C	R3427	E-3	F	R50016	D-3	F	RA50011	D-3	F	RX6718	E-6	F
Transistor-resistor			CKC63	B-4	F	CKF12	C-6	F	CL50008	D-2	F	FL3415	B-6	C	C4409	E-1	F	R4403	F-2	F	R50017	D-2	F	RA50012	D-3	F	RX6719	E-6	F
QR3401	E-7	F	CKC64	A-4	F	CKF14	D-7	F	TL6001	C-7	F	FL3416	F-6	C	C4410	D-1	F	R4404	F-2	F	R50018	D-2	F	RA50013	C-4	C	RX6720	E-4	F
QR3402	B-6	C	CKC65	B-4	F	CKF16	D-6	F	TL6002	C-7	F	FL3417	F-5	C	C4411	D-2	F	R4405	E-1	F	R50021	D-2	F	RA50014	C-3	C	RX6721	E-4	F
QR3403	B-6	C	CKC66	A-4	F	CKF18	D-6	F	TL6003	C-7	F	FL3418	D-4	C	C4412	B-2	C	R4406	F-2	F	R50022	A-2	F	RA50015	D-3	C	RX6722	E-6	F
QR9001	E-6	F	CKC67	B-4	F	CKF20	E-6	F	TL6004	B-7	F	FL3419	D-5	C	C4413	B-3	C	R4407	E-2	F	R50023	A-2	F	RA50016	D-3	C	RX6723	E-6	F
QR9005	F-6	F	CKC68	B-4	F	CKF23	E-6	F	TL6005	C-7	F	FL3421	E-4	F	C4414	B-2	C	R4408	E-2	F	R50024	A-3	F	RA50017	D-3	F	RX6724	F-4	F
Test Point			CKC69	A-3	F	CKF24	D-6	F	TL6006	C-7	F	FL3422	F-6	C	C4415	B-1	C	R4411	D-2	F	R50025	A-3	F	RA50018	C-4	F	RX6725	F-4	F
CK3401	E-3	F	CKC88	A-6	F	CKF25	E-6	F	TL6701	D-5	F	FL3425	F-6	C	C4416	D-1	F	R4412	D-2	F	R50026	A-2	F	RA50019	C-4	F	RX6726	F-6	F
CK3402	E-3	F	CKC93	A-5	F	CKF26	D-6	F	**Connector**			FL3428	E-3	F	C4417	E-1	F	R4413	E-2	F	R50027	A-2	F	RA50020	C-4	F	RX6727	F-6	F
CKA1	A-3	F	CKC94	A-5	F	CKF27	E-6	F	P3401	D-6	F	FL4401	E-2	F	C4418	E-1	F	R4414	E-2	F	R50030	A-2	F	RA50021	C-4	F	RX6728	F-6	F
CKA2	A-3	F	CKC95	A-5	F	CKF28	E-6	F	P3402	D-6	F	FL6001	D-6	C	C4419	E-2	F	R4415	E-2	F	R50031	A-2	F	RA50022	B-4	F	RX6729	F-6	F
CKA3	A-3	F	CKC96	A-5	F	CKF29	E-6	F	P6001	C-6	F	FL6002	D-5	C	C6001	C-7	F	R6001	D-7	F	R50032	A-2	F	RA50023	B-4	F	RX6730	F-4	F
CKA4	A-3	F	CKC97	A-5	F	CKF30	E-6	F	P9001	F-3	C	FL6003	C-7	F	C9001	B-3	C	R6002	C-6	F	R50033	F-2	F	RA50024	A-3	F	RX6731	F-4	F
CKA5	A-3	F	CKC98	A-5	F	CKF31	E-6	F	P9002	A-3	C	FL6004	C-7	F	C9003	C-3	C	R6003	C-6	F	R50034	A-2	F	RA50025	A-3	F	RX6732	F-5	F
CKA7	A-3	F	CKC99	B-5	F	CKF32	E-6	F	P9003	A-5	C	FL6005	C-6	F	C9004	E-7	F	R6004	C-5	F	R50035	A-2	F	RA50026	C-1	F	RX6733	F-6	F
CKA9	A-2	F	CKC100	B-5	F	CKF33	E-6	F	**Diode**			FL6006	C-7	F	C9005	C-4	C	R6005	B-6	F	R50036	A-2	F	RA50027	C-1	F	RX6735	F-5	F
CKA11	A-2	F	CKC102	B-5	F	CKF34	E-6	F	D3201	E-2	C	FL6009	B-6	F	C9007	E-7	F	R6006	C-5	F	R50037	B-1	F	RA50028	C-1	F	RX6736	F-6	F
CKA13	A-2	F	CKC103	B-5	F	CKF35	E-6	F	D3202	E-2	C	FL6010	B-6	C	C9011	C-3	C	R6007	C-7	F	R50038	A-2	F	RA50029	C-1	F	RX6737	F-6	F
CKA15	A-2	F	CKC105	B-5	F	CKF36	E-6	F	D3203	D-4	C	FL6011	E-4	C	C9013	B-3	C	R6008	C-6	F	R50039	A-2	F	RX6001	C-6	F	RX6738	F-6	F
CKA16	A-2	F	CKC106	B-5	F	CKF37	E-6	F	D3204	D-4	C	FL6012	B-6	F	C9014	F-3	C	R6009	C-6	F	R50040	A-2	F	RX6002	C-6	F	RX6739	F-6	F
CKA18	A-2	F	CKC109	B-5	F	CKF38	D-5	F	D9001	F-3	F	FL6013	B-7	F	C9015	F-3	C	R6010	C-5	F	R50041	E-4	C	RX6003	C-6	F	RX6740	F-6	F
CKA20	A-2	F	CKC110	B-5	F	CL3201	C-4	F	**Crystal Osillator**			FL6701	E-4	F	C50007	A-3	F	R6011	B-6	F	R50042	B-2	F	RX6004	C-6	F	RX6741	F-5	F
CKA22	A-3	F	CKC112	A-4	F	CL3202	C-6	F	X3202	D-4	C	FL6702	A-4	C	C50008	E-2	C	R6013	B-6	F	R50043	A-3	F	RX6005	C-6	F	RX6742	F-5	F
CKA24	B-3	F	CKC113	B-7	F	CL3203	A-3	F	X3401	E-4	C	FL6703	F-5	F	C50009	A-3	F	R6014	B-6	F	R50044	F-2	F	RX6006	C-6	F	RX6743	F-5	F
CKA25	A-3	F	CKC114	A-4	F	CL3204	A-3	F	X6001	B-6	F	FL9004	B-3	C	C50010	E-1	C	R6015	B-6	F	R50045	F-2	F	RX6007	C-6	F	RX6744	F-5	F
CKA26	A-3	F	CKC115	B-7	F	CL3205	D-5	F	**Coil**			FL9012	F-4	F	C50013	F-2	F	R6016	B-6	C	R50046	F-2	F	RX6008	B-6	F	RX6745	F-5	F
CKA28	A-3	F	CKC116	A-4	F	CL6001	B-6	F	LB3201	C-4	C	FL9013	F-3	F	C50014	D-2	F	R6017	E-4	C	R50047	F-2	F	RX6009	D-6	C	RX6746	E-5	F
CKA30	B-4	F	CKC117	B-7	F	CL6003	C-6	F	LB3202	B-4	F	FL9016	F-2	F	C50015	C-2	C	R6019	C-7	F	R50048	A-3	F	RX6010	D-5	C	RX6747	F-7	F
CKB3	F-3	F	CKC118	A-4	F	CL6004	C-6	F	LB3203	E-2	C	FL9020	A-4	C	C50016	F-2	F	R6021	B-5	F	R50049	A-3	F	RX6011	C-6	C	RX6748	F-7	F
CKB8	F-7	F	CKC119	B-7	F	CL6701	F-5	F	LB3204	B-5	F	FL9022	B-3	C	C50018	B-2	C	R6022	B-6	F	R50052	D-2	F	RX6012	D-5	C	RX6749	E-6	F
CKB9	D-5	F	CKC121	A-4	F	CL6702	F-5	F	LB3205	C-5	F	FL50001	D-3	F	C50025	E-2	F	R6024	C-4	C	R50053	D-3	F	RX6013	C-5	F			
CKB10	D-5	F	CKC122	D-2	F	CL6703	F-5	F	LB3401	C-4	F	FL50002	D-3	F	C50026	B-2	C	R6701	D-5	F	R50054	D-3	F	RX6014	B-6	F			
CKB11	D-5	F	CKC123	A-4	F	CL6704	F-5	F	LB3402	D-4	F	FL50005	D-2	C	C50027	B-2	C	R6702	D-5	F	R50055	D-2	F	RX6015	C-5	F			
CKB12	F-2	F	CKC124	D-2	F	CL6705	F-5	F	LB4402	E-1	F	FL50006	E-2	C	C50028	E-2	F	R6704	D-5	F	R50058	E-4	C	RX6016	C-6	F			
CKB14	E-1	F	CKC125	A-4	F	CL6706	F-5	F	LB4403	E-2	F	FL50007	D-3	F	**Resistor**			R6705	D-5	F	R50060	E-4	C	RX6017	B-5	F			
CKB17	F-2	F	CKC126	D-2	F	CL6707	F-5	F	LB9001	F-4	F	FL50008	D-4	C	R3202	E-4	C	R6706	E-4	F	RA3201	B-4	F	RX6018	C-6	C			

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

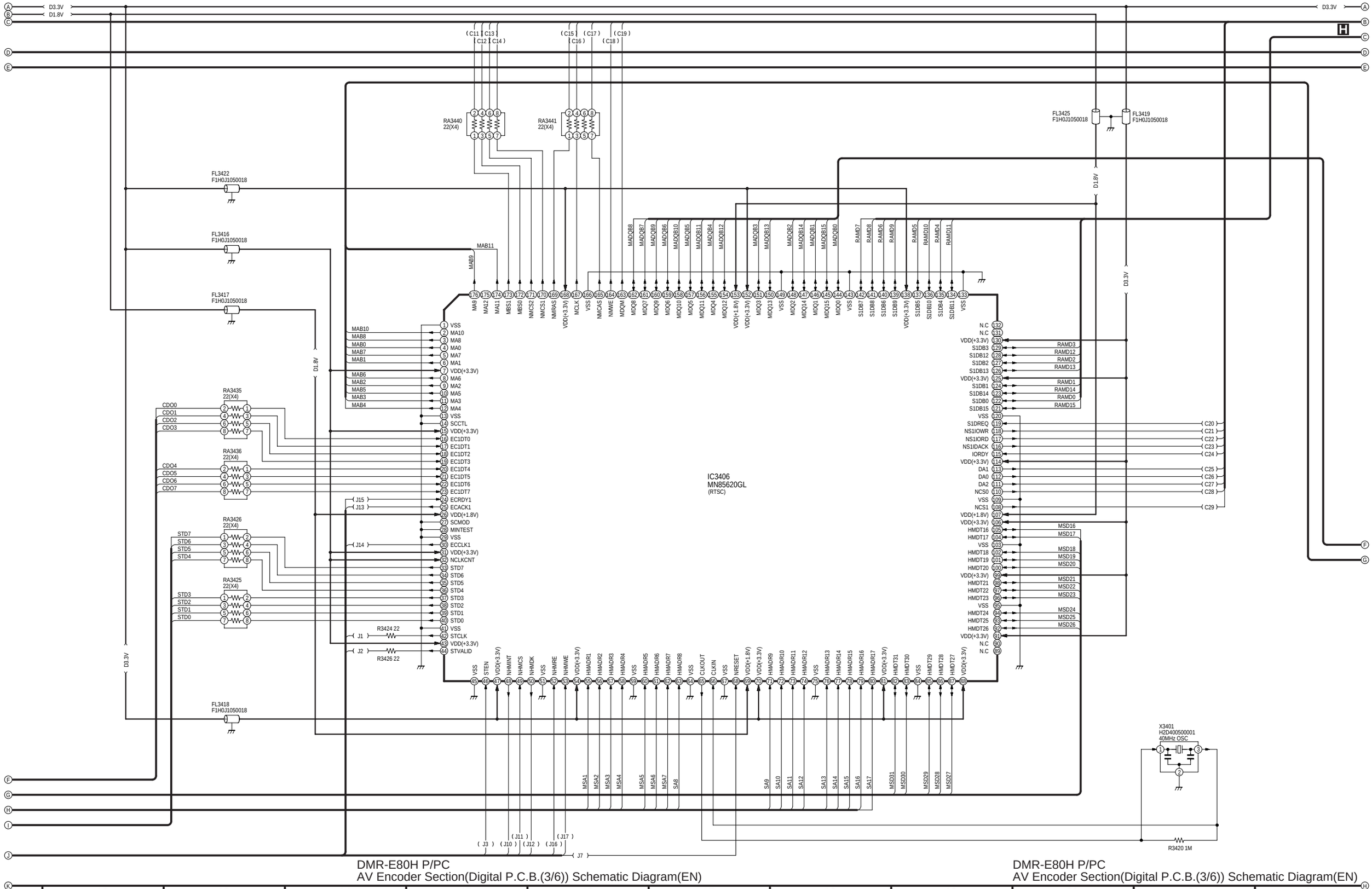
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Digital Net Section
(Digital P.C.B.(1/6))
Schematic Diagram(DN)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

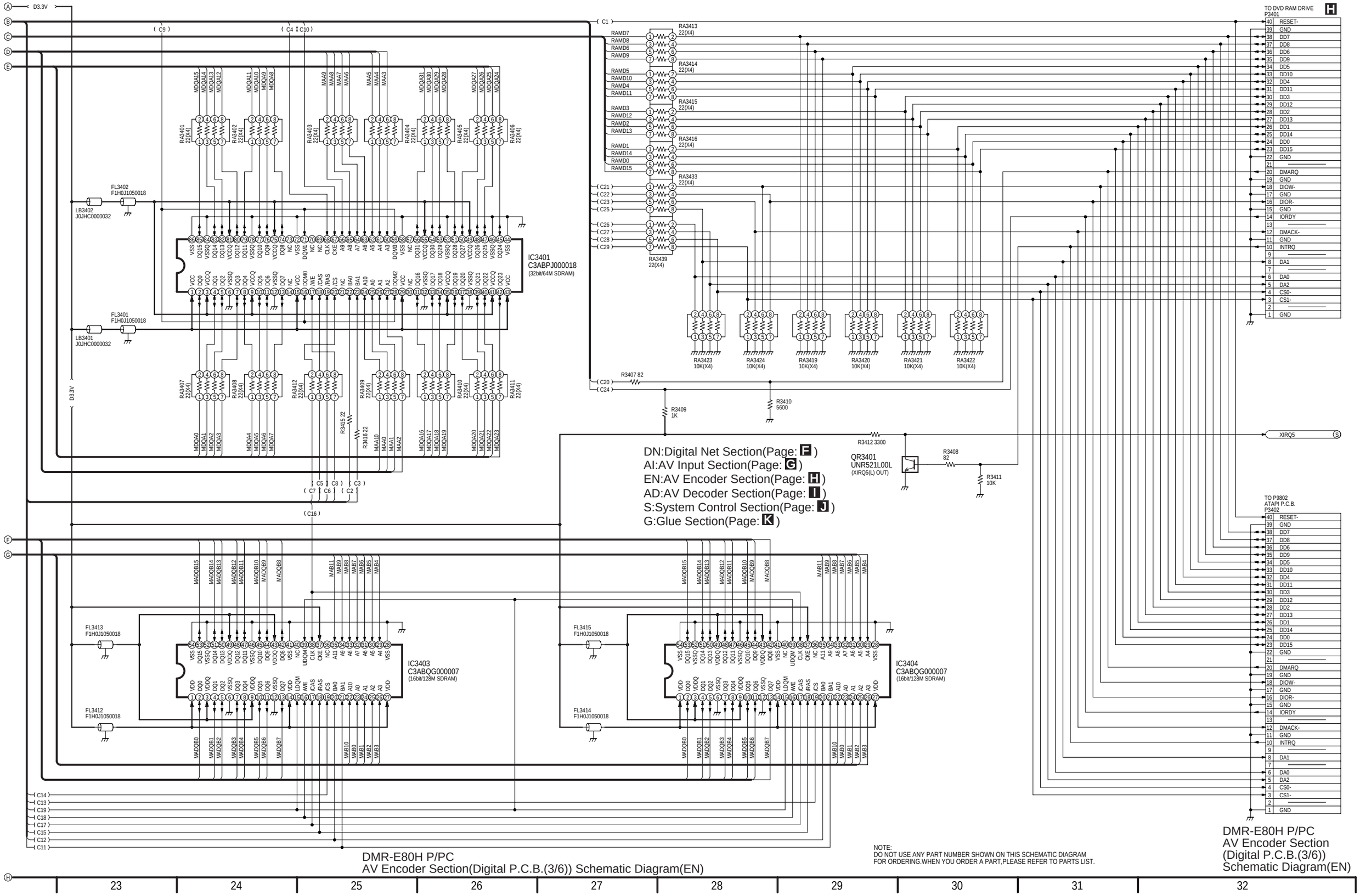
IC3402
MN85572
(AV ENCODER)

DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)



DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

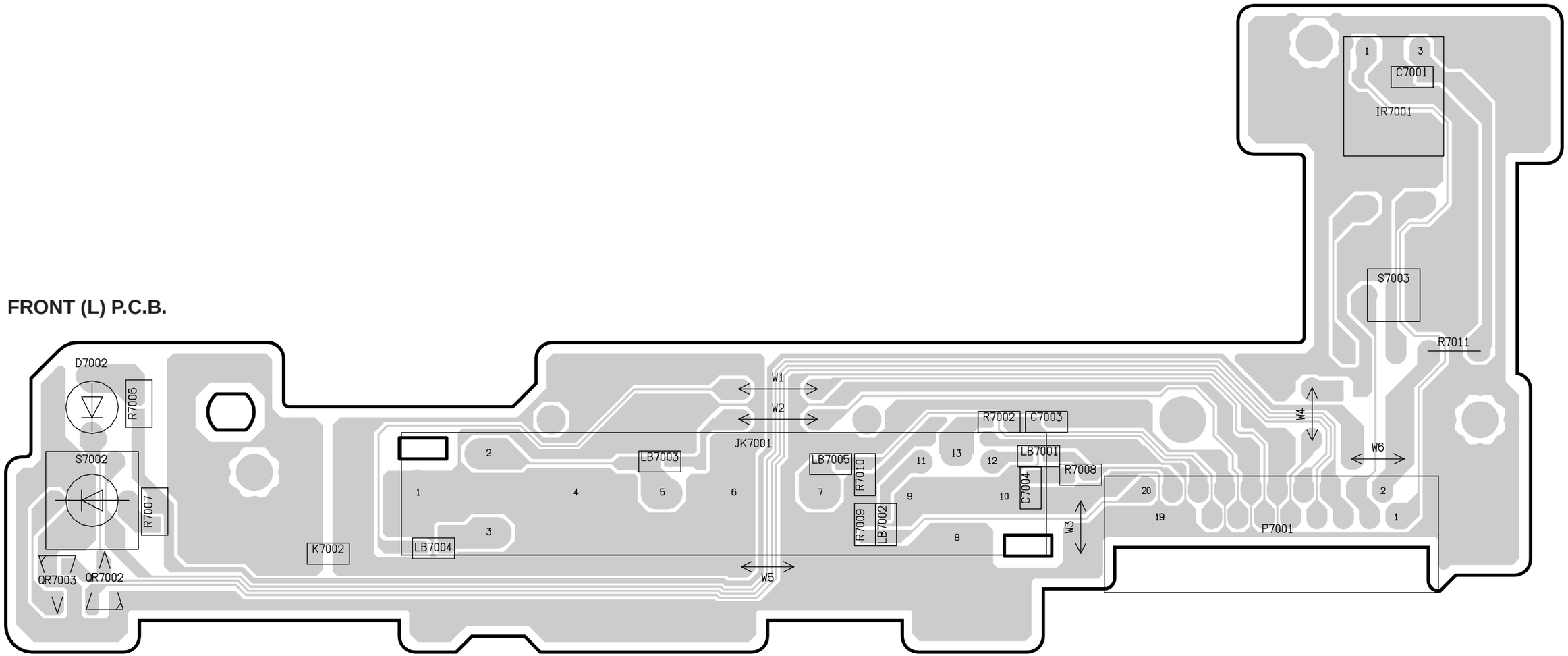


NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E80H P/PC
AV Encoder Section(Digital P.C.B.(3/6)) Schematic Diagram(EN)

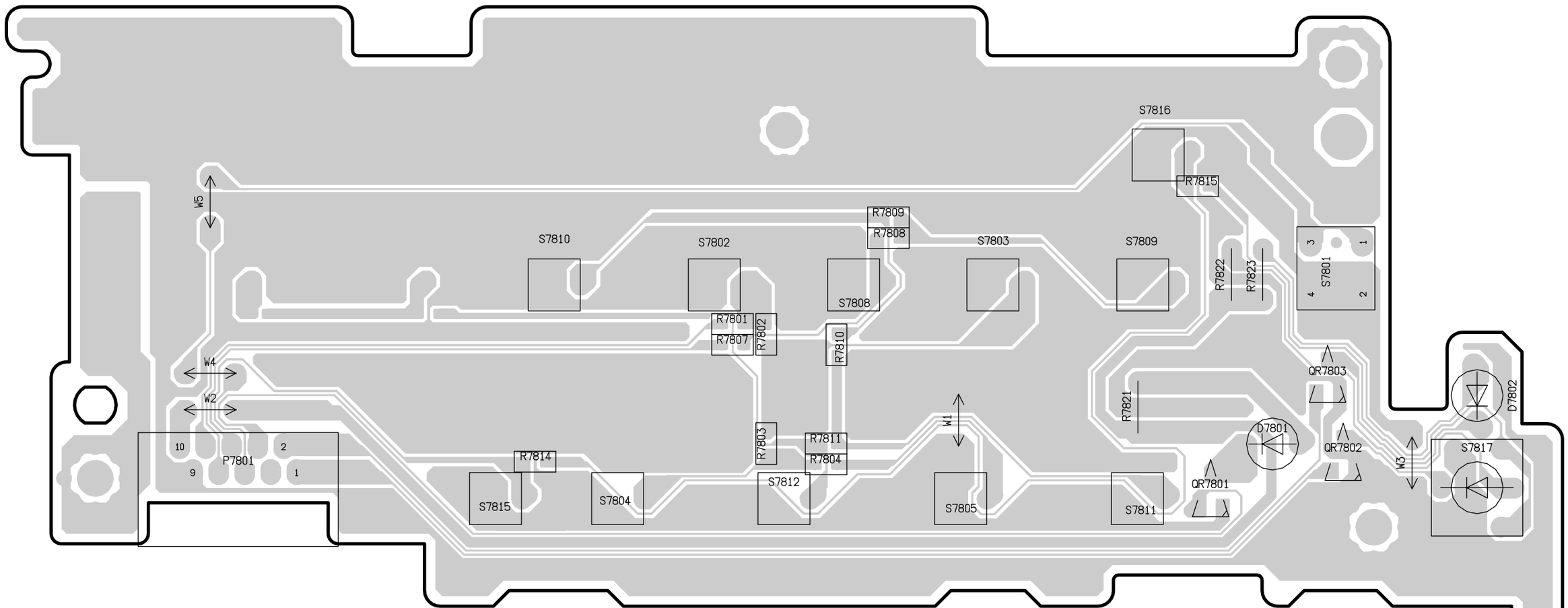
DMR-E80H P/PC
AV Encoder Section
(Digital P.C.B.(3/6))
Schematic Diagram(EN)

FRONT (L) P.C.B.

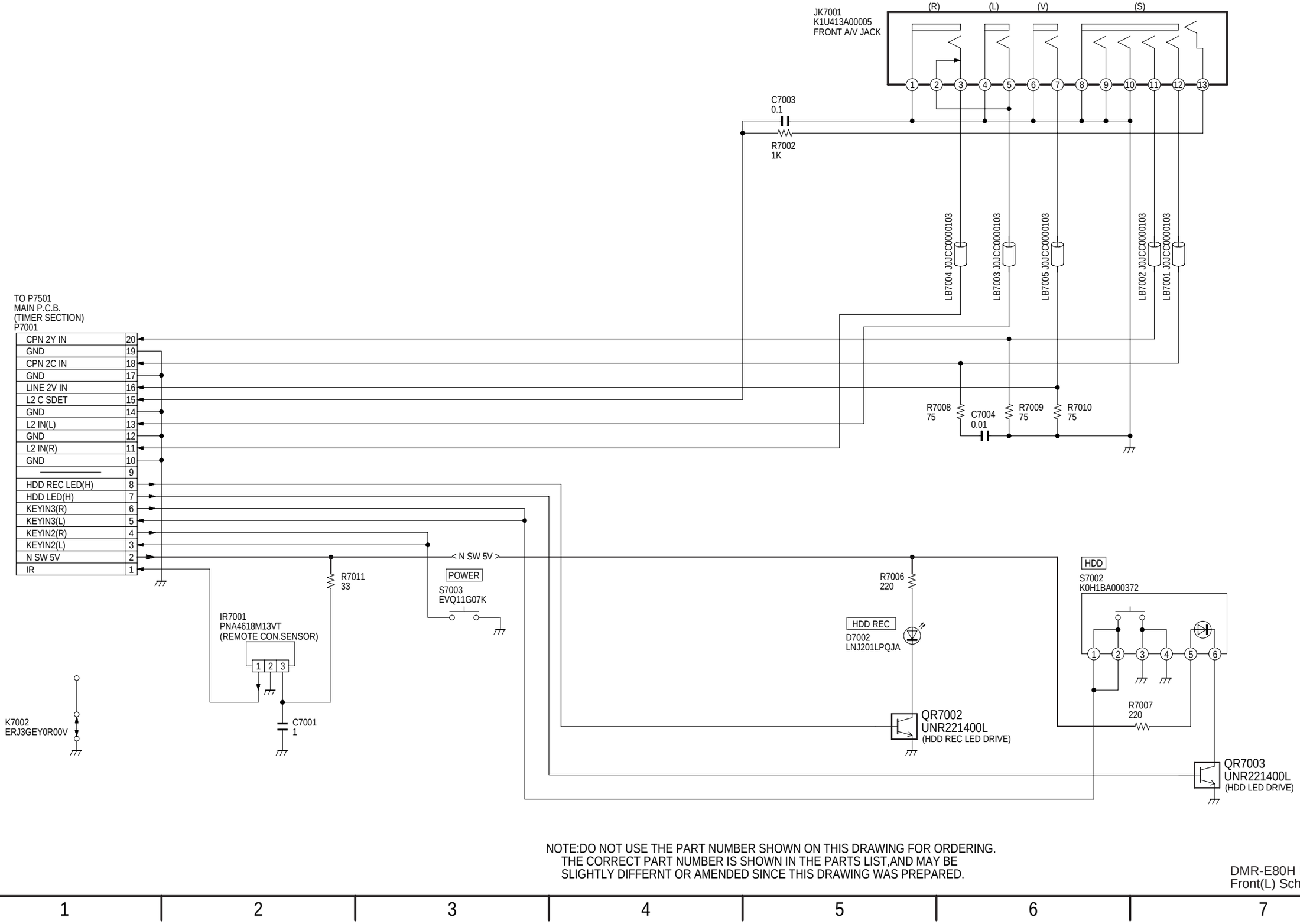


DMR-E80H P/PC
FRONT (L) P.C.B.
(REP3528DB)

FRONT (R) P.C.B.

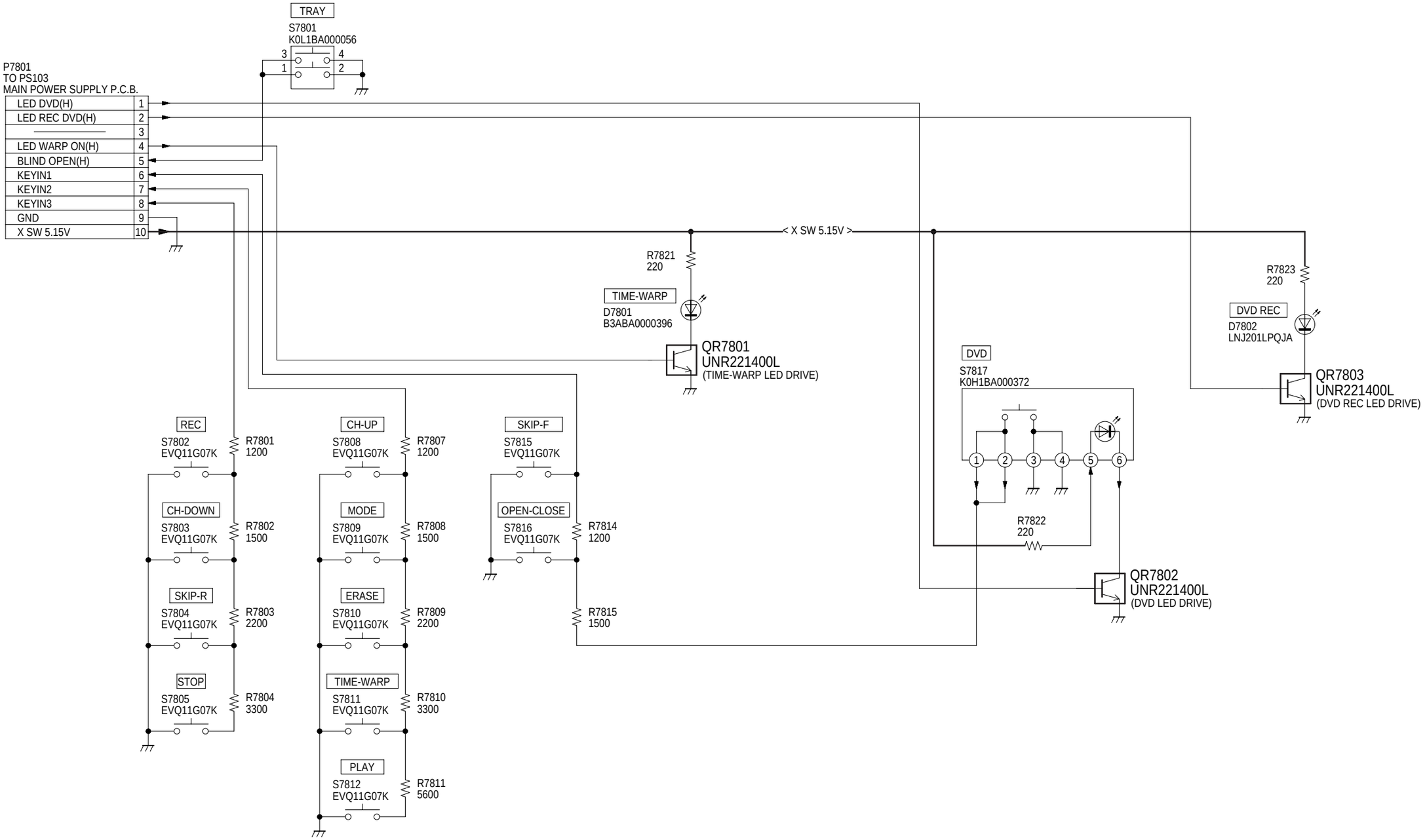


DMR-E80H P/PC
FRONT (R) P.C.B.
(REP3528EA)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Front(L) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

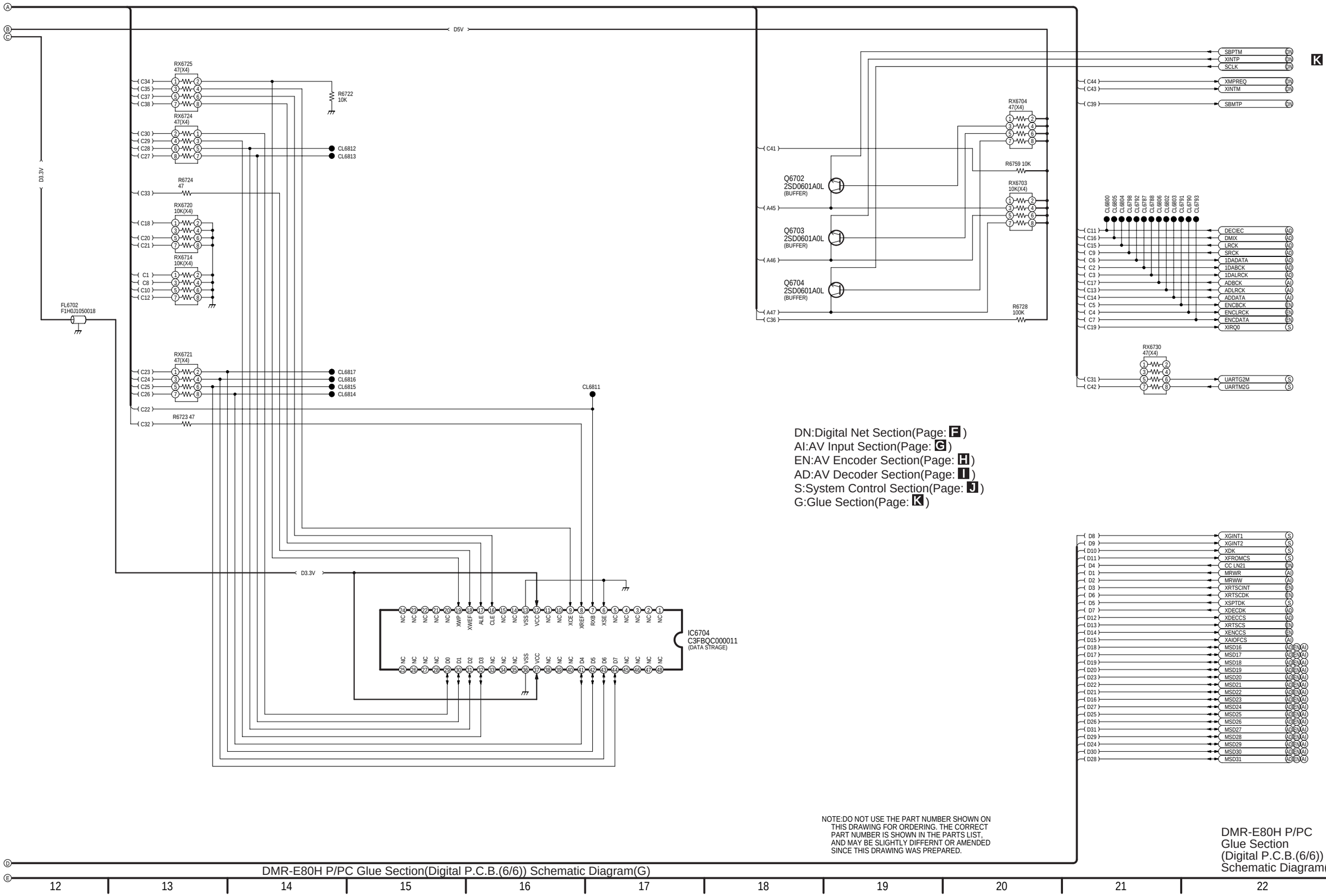
DMR-E80H P/PC
Front(R) Schematic Diagram

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

IC6702
C0JBAB000474
(INVERTER)

IC6701
C1ZBZ0002255
(GLUE)

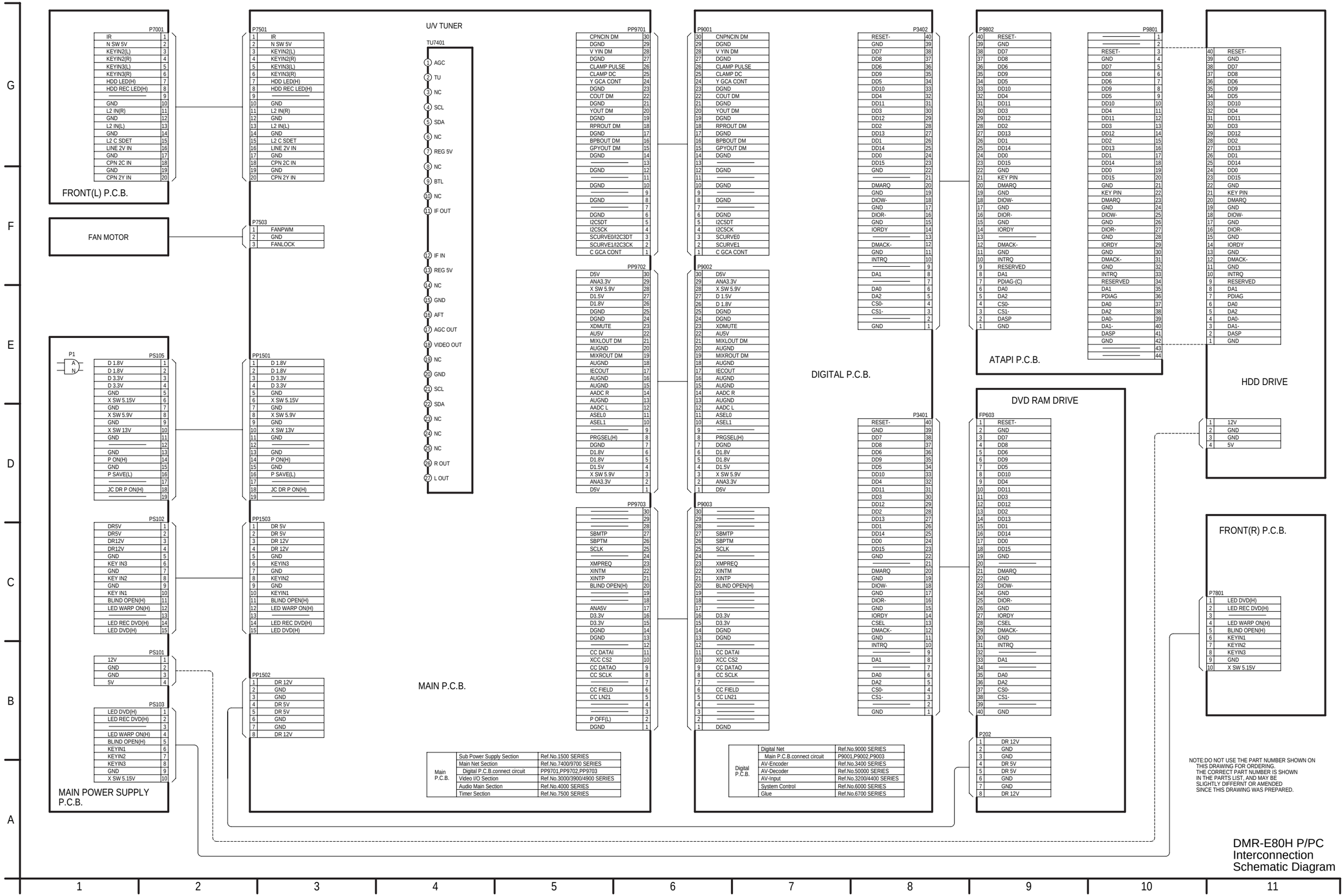
DMR-E80H P/PC Glue Section(Digital P.C.B.(6/6)) Schematic Diagram(G)

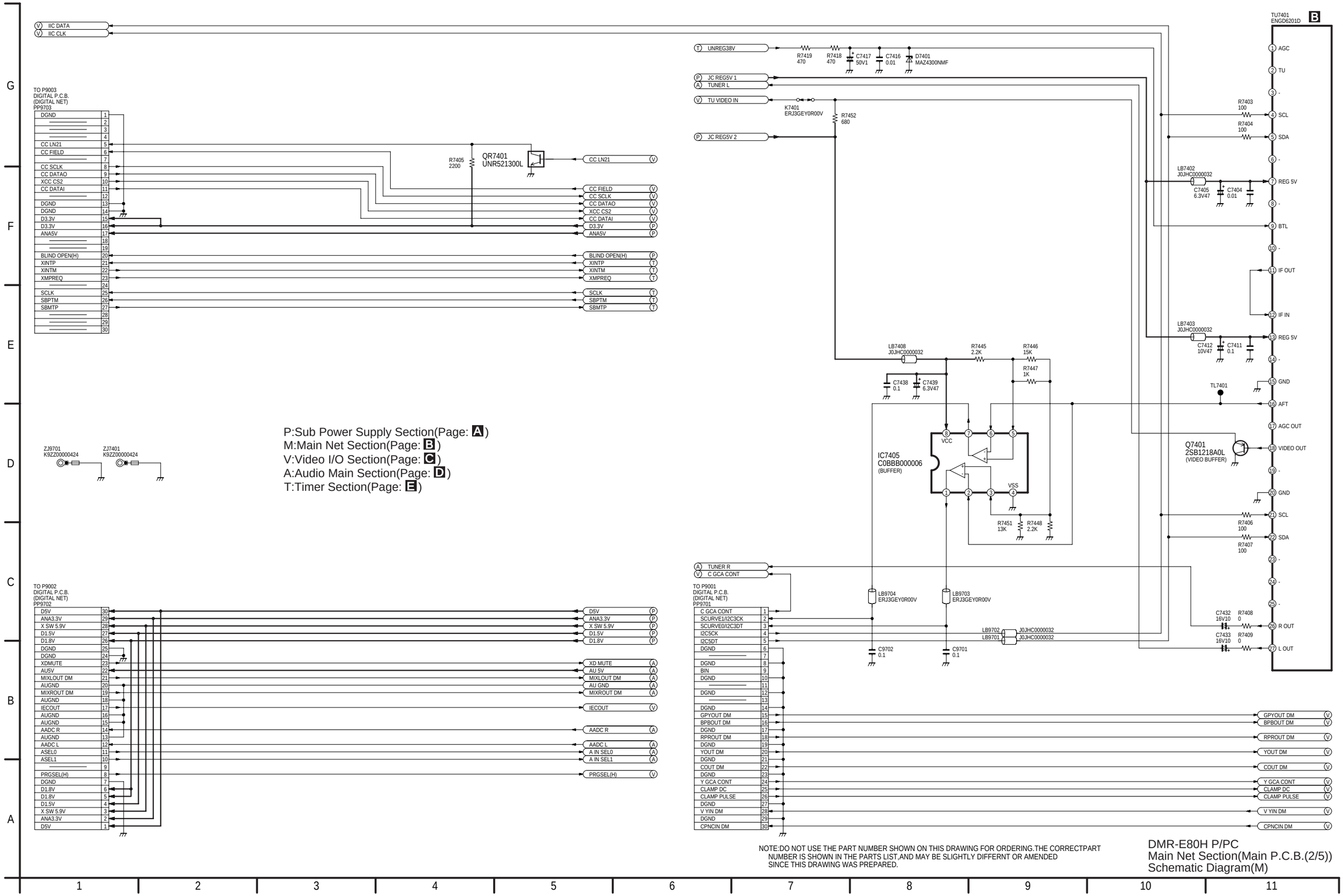


DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Glue Section
(Digital P.C.B.(6/6))
Schematic Diagram(G)


FRONT(L) P.C.B.
P7001
IR 1
N SW 5V 2
KEYIN2(L) 3
KEYIN2(R) 4
KEYIN3(L) 5
KEYIN3(R) 6
HDD LED(H) 7
HDD REC LED(H) 8
9
GND 10
L2 IN(R) 11
GND 12
L2 IN(L) 13
GND 14
L2 C SDET 15
LINE 2V IN 16
GND 17
CPN 2C IN 18
GND 19
CPN 2Y IN 20
P7501
1 IR
2 N SW 5V
3 KEYIN2(L)
4 KEYIN2(R)
5 KEYIN3(L)
6 KEYIN3(R)
7 HDD LED(H)
8 HDD REC LED(H)
9
10 GND
11 L2 IN(R)
12 GND
13 L2 IN(L)
14 GND
15 L2 C SDET
16 LINE 2V IN
17 GND
18 CPN 2C IN
19 GND
20 CPN 2Y IN
FAN MOTOR
P7503
1 FANPWM
2 GND
3 FANLOCK
P1
A
N
PS105
D 1.8V 1
D 1.8V 2
D 3.3V 3
D 3.3V 4
GND 5
X SW 5.15V 6
GND 7
X SW 5.9V 8
GND 9
X SW 13V 10
GND 11
12
GND 13
P ON(H) 14
GND 15
P SAVE(L) 16
17
JC DR P ON(H) 18
19
PS102
DR5V 1
DR5V 2
DR12V 3
DR12V 4
GND 5
KEY IN3 6
GND 7
KEY IN2 8
GND 9
KEY IN1 10
BLIND OPEN(H) 11
LED WARP ON(H) 12
13
LED REC DVD(H) 14
LED DVD(H) 15
PS101
12V 1
GND 2
GND 3
5V 4
PS103
LED DVD(H) 1
LED REC DVD(H) 2
3
LED WARP ON(H) 4
BLIND OPEN(H) 5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5.15V 10
MAIN POWER SUPPLY P.C.B.
PP1501
1 D 1.8V
2 D 1.8V
3 D 3.3V
4 D 3.3V
5 GND
6 X SW 5.15V
7 GND
8 X SW 5.9V
9 GND
10 X SW 13V
11 GND
12
13 GND
14 P ON(H)
15 GND
16 P SAVE(L)
17
18 JC DR P ON(H)
19
PP1503
1 DR 5V
2 DR 5V
3 DR 12V
4 DR 12V
5 GND
6 KEYIN3
7 GND
8 KEYIN2
9 GND
10 KEYIN1
11 BLIND OPEN(H)
12 LED WARP ON(H)
13
14 LED REC DVD(H)
15 LED DVD(H)
PP1502
1 DR 12V
2 GND
3 GND
4 DR 5V
5 DR 5V
6 GND
7 GND
8 DR 12V
U/V TUNER
TU7401
1 AGC
2 TU
3 NC
4 SCL
5 SDA
6 NC
7 REG 5V
8 NC
9 BTL
10 NC
11 IF OUT
12 IF IN
13 REG 5V
14 NC
15 GND
16 AFT
17 AGC OUT
18 VIDEO OUT
19 NC
20 GND
21 SCL
22 SDA
23 NC
24 NC
25 NC
26 R OUT
27 L OUT
MAIN P.C.B.
PP9701
CPNCIN DM 30
DGND 29
V YIN DM 28
DGND 27
CLAMP PULSE 26
CLAMP DC 25
Y GCA CONT 24
DGND 23
COUT DM 22
DGND 21
YOUT DM 20
DGND 19
RPROUT DM 18
DGND 17
BPBOUT DM 16
GPYOUT DM 15
DGND 14
13
DGND 12
11
DGND 10
9
DGND 8
7
DGND 6
I2C5DT 5
I2C5CK 4
SCURVE0/I2C3DT 3
SCURVE1/I2C3CK 2
C GCA CONT 1
PP9702
D5V 30
ANA3.3V 29
X SW 5.9V 28
D1.5V 27
D1.8V 26
DGND 25
DGND 24
XDMUTE 23
AU5V 22
MIXLOUT DM 21
AUGND 20
MIXROUT DM 19
AUGND 18
IECOUT 17
AUGND 16
AUGND 15
AADC R 14
AUGND 13
AADC L 12
ASEL0 11
ASEL1 10
9
PRGSEL(H) 8
DGND 7
D1.8V 6
D1.8V 5
D1.5V 4
X SW 5.9V 3
ANA3.3V 2
D5V 1
PP9703
30
29
28
SBMTP 27
SBPTM 26
SCLK 25
24
XMPREQ 23
XINTM 22
XINTP 21
BLIND OPEN(H) 20
19
18
ANA5V 17
D3.3V 16
D3.3V 15
DGND 14
DGND 13
12
CC DATAI 11
XCC CS2 10
CC DATAO 9
CC SCLK 8
7
CC FIELD 6
CC LN21 5
4
3
P OFF(L) 2
DGND 1
P9001
30 CNPNCIN DM
29 DGND
28 V YIN DM
27 DGND
26 CLAMP PULSE
25 CLAMP DC
24 Y GCA CONT
23 DGND
22 COUT DM
21 DGND
20 YOUT DM
19 DGND
18 RPROUT DM
17 DGND
16 BPBOUT DM
15 GPYOUT DM
14 DGND
13
12 DGND
11
10 DGND
9
8 DGND
7
6 DGND
5 I2C5DT
4 I2C5CK
3 SCURVE0
2 SCURVE1
1 C GCA CONT
P9002
30 D5V
29 ANA3.3V
28 X SW 5.9V
27 D 1.5V
26 D 1.8V
25 DGND
24 DGND
23 XDMUTE
22 AU5V
21 MIXLOUT DM
20 AUGND
19 MIXROUT DM
18 AUGND
17 IECOUT
16 AUGND
15 AUGND
14 AADC R
13 AUGND
12 AADC L
11 ASEL0
10 ASEL1
9
8 PRGSEL(H)
7 DGND
6 D1.8V
5 D1.8V
4 D1.5V
3 X SW 5.9V
2 ANA3.3V
1 D5V
P9003
30
29
28
27 SBMTP
26 SBPTM
25 SCLK
24
23 XMPREQ
22 XINTM
21 XINTP
20 BLIND OPEN(H)
19
18
17
16 D3.3V
15 D3.3V
14 DGND
13 DGND
12
11 CC DATAI
10 XCC CS2
9 CC DATAO
8 CC SCLK
7
6 CC FIELD
5 CC LN21
4
3
2
1 DGND
DIGITAL P.C.B.
P3402
RESET- 40
GND 39
DD7 38
DD8 37
DD6 36
DD9 35
DD5 34
DD10 33
DD4 32
DD11 31
DD3 30
DD12 29
DD2 28
DD13 27
DD1 26
DD14 25
DD0 24
DD15 23
GND 22
21
DMARQ 20
GND 19
DIOW- 18
GND 17
DIOR- 16
GND 15
IORDY 14
13
DMACK- 12
GND 11
INTRQ 10
9
DA1 8
7
DA0 6
DA2 5
CS0- 4
CS1- 3
2
GND 1
P3401
RESET- 40
GND 39
DD7 38
DD8 37
DD6 36
DD9 35
DD5 34
DD10 33
DD4 32
DD11 31
DD3 30
DD12 29
DD2 28
DD13 27
DD1 26
DD14 25
DD0 24
DD15 23
GND 22
21
DMARQ 20
GND 19
DIOW- 18
GND 17
DIOR- 16
GND 15
IORDY 14
CSEL 13
DMACK- 12
GND 11
INTRQ 10
9
DA1 8
7
DA0 6
DA2 5
CS0- 4
CS1- 3
2
GND 1
P9802
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21 KEY PIN
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13
12 DMACK-
11 GND
10 INTRQ
9 RESERVED
8 DA1
7 PDIAG-(C)
6 DA0
5 DA2
4 CS0-
3 CS1-
2 DASP
1 GND
ATAPI P.C.B.
P9801
1
2
RESET- 3
GND 4
DD7 5
DD8 6
DD6 7
DD9 8
DD5 9
DD10 10
DD4 11
DD11 12
DD3 13
DD12 14
DD2 15
DD13 16
DD1 17
DD14 18
DD0 19
DD15 20
GND 21
KEY PIN 22
DMARQ 23
GND 24
DIOW- 25
GND 26
DIOR- 27
GND 28
IORDY 29
GND 30
DMACK- 31
GND 32
INTRQ 33
RESERVED 34
DA1 35
PDIAG 36
DA0 37
DA2 38
DA0- 39
DA1- 40
DASP 41
GND 42
43
44
HDD DRIVE
40 RESET-
39 GND
38 DD7
37 DD8
36 DD6
35 DD9
34 DD5
33 DD10
32 DD4
31 DD11
30 DD3
29 DD12
28 DD2
27 DD13
26 DD1
25 DD14
24 DD0
23 DD15
22 GND
21 KEY PIN
20 DMARQ
19 GND
18 DIOW-
17 GND
16 DIOR-
15 GND
14 IORDY
13 GND
12 DMACK-
11 GND
10 INTRQ
9 RESERVED
8 DA1
7 PDIAG
6 DA0
5 DA2
4 DA0-
3 DA1-
2 DASP
1 GND
1 12V
2 GND
3 GND
4 5V
DVD RAM DRIVE
FP603
1 RESET-
2 GND
3 DD7
4 DD8
5 DD6
6 DD9
7 DD5
8 DD10
9 DD4
10 DD11
11 DD3
12 DD12
13 DD2
14 DD13
15 DD1
16 DD14
17 DD0
18 DD15
19 GND
20
21 DMARQ
22 GND
23 DIOW-
24 GND
25 DIOR-
26 GND
27 IORDY
28 CSEL
29 DMACK-
30 GND
31 INTRQ
32
33 DA1
34
35 DA0
36 DA2
37 CS0-
38 CS1-
39
40 GND
P202
1 DR 12V
2 GND
3 GND
4 DR 5V
5 DR 5V
6 GND
7 GND
8 DR 12V
FRONT(R) P.C.B.
P7801
1 LED DVD(H)
2 LED REC DVD(H)
3
4 LED WARP ON(H)
5 BLIND OPEN(H)
6 KEYIN1
7 KEYIN2
8 KEYIN3
9 GND
10 X SW 5.15V
Main P.C.B.
Sub Power Supply Section Ref.No.1500 SERIES
Main Net Section Ref.No.7400/9700 SERIES
Digital P.C.B.connect circuit PP9701,PP9702,PP9703
Video I/O Section Ref.No.3000/3900/4900 SERIES
Audio Main Section Ref.No.4000 SERIES
Timer Section Ref.No.7500 SERIES
Digital P.C.B.
Digital Net Ref.No.9000 SERIES
Main P.C.B.connect circuit P9001,P9002,P9003
AV-Encoder Ref.No.3400 SERIES
AV-Decoder Ref.No.50000 SERIES
AV-Input Ref.No.3200/4400 SERIES
System Control Ref.No.6000 SERIES
Glue Ref.No.6700 SERIES
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E80H P/PC Interconnection Schematic Diagram
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11



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DMR-E80H P/PC
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

MAIN P.C.B.

Integrated Circuit	
IC1502	C-3
IC1504	C-3
IC1505	C-2
IC1508	E-7
IC1513	F-7
IC3002	C-4
IC3003	C-6
IC3005	E-6
IC4002	E-3
IC4003	E-3
IC4009	E-4
IC4010	E-2
IC4011	E-2
IC4012	E-2
IC7405	D-7
IC7501	A-3
IC7502	B-3
IC7503	B-4
IC7504	B-2
IC7505	B-3
IC7507	F-1
Transistor	
Q3001	D-6
Q3002	E-6
Q3003	E-7
Q3004	C-4
Q3005	C-3
Q3006	C-3
Q3007	D-6
Q3008	D-6
Q3009	D-6
Q3010	E-6
Q3011	E-7
Q3012	C-4
Q3015	C-4
Q4004	E-2
Q4006	F-4
Q4007	F-3
Q4008	F-4
Q4009	F-4
Q7401	E-7
Q7501	A-2
Q7502	A-2
Q7509	F-1
Q7510	A-4
Q7511	A-4
Transistor-resistor	
QR3001	E-6
QR3002	D-7
QR3004	D-6
QR3005	E-6
QR3006	D-6
QR3007	D-7
QR3008	D-6
QR3009	D-6
QR3010	D-6
QR3011	B-4
QR4002	D-2
QR4003	D-2
QR4004	D-2
QR4005	D-2
QR4006	E-2
QR4007	E-2
QR4010	D-2
QR4011	E-2
QR4012	E-2
QR7401	C-4
QR7501	B-4
QR7504	B-2
Test Point	
CL7501	B-3
CL9701	B-5
TL3001	B-6
TL7401	E-8
TL7501	A-4
TL7502	B-2
TL7503	B-2
TL7504	B-3
TL7505	B-2
TL7506	B-4
TL7507	A-5
TL7538	A-1

Connector	
JK3901	F-2
JK3902	F-4
JK3903	F-5
P7501	A-7
P7503	E-1
PP1501	C-1
PP1502	B-2
PP1503	B-1
PP9701	C-7
PP9702	C-5
PP9703	B-5
Diode	
D3001	C-6
D4005	E-3
D4006	E-3
D7401	D-8
D7502	A-1
D7503	A-1
D7505	B-2
D7506	A-2
D7507	A-2
D7513	C-2
D7514	C-2
Crystal Osillator	
X3001	C-4
X7501	B-2
X7502	B-3
IC Protector	
IP7501	B-1
Coil	
L3001	D-6
L3002	D-6
L3003	E-6
L3004	E-6
L3005	E-6
L3006	B-4
L3007	E-6
L3008	E-7
L3009	E-6
L3010	D-6
L3012	E-6
L3014	E-7
L3015	E-6
L3016	E-6
L3017	B-6
L3018	B-5
L3019	D-6
L3020	D-6
L3021	D-6
L3022	D-6
L3023	D-7
L4901	F-6
L7501	B-1
L7502	A-4
L7503	B-3
L7504	B-3
LB1501	C-1
LB1502	C-1
LB1503	C-1
LB1504	C-1
LB1505	C-1
LB3001	C-3
LB3901	F-5
LB3902	F-5
LB3903	F-4
LB3904	F-5
LB3908	F-6
LB3909	F-5
LB3910	F-5
LB3911	F-4
LB3912	F-4
LB3913	F-2
LB3914	F-2
LB3915	F-3
LB3916	F-3
LB3917	F-3
LB3918	F-3
LB4907	F-4
LB4908	F-3
LB4909	F-4
LB4910	F-4
LB4911	F-2

LB4912	F-2
LB4913	F-2
LB4914	F-2
LB7402	F-7
LB7403	E-7
LB7408	C-7
LB7508	A-2
LB9701	C-7
LB9702	C-7
LB9703	C-7
LB9704	C-7
Capacitor	
C1502	C-1
C1503	C-1
C1504	C-1
C1505	C-1
C1506	C-1
C1507	F-7
C1508	C-3
C1509	E-7
C1512	D-3
C1514	C-2
C1528	F-7
C1530	F-7
C3001	E-6
C3002	D-6
C3003	D-6
C3004	D-6
C3005	D-6
C3006	D-6
C3007	D-6
C3008	D-5
C3009	E-7
C3010	E-6
C3011	E-6
C3012	E-6
C3013	C-6
C3014	D-6
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C3017	E-7
C3018	D-6
C3019	D-7
C3020	E-7
C3022	B-6
C3023	D-6
C3024	D-4
C3025	C-4
C3027	C-4
C3028	B-6
C3029	C-6
C3030	D-4
C3031	C-4
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C3044	E-6
C3045	E-6
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C3051	B-4
C3052	E-6
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C3059	F-6
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C3062	E-7
C3063	F-7
C3064	F-6
C3066	C-4
C3067	C-4
C3068	C-3
C3069	C-3
C3070	C-3
C3071	C-6
C3072	D-6
C3073	E-6
C3074	D-6
C3075	D-6

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C3079	D-6
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C3091	C-6
C3092	D-6
C3093	B-6
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C3095	B-6
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C3098	C-6
C3099	C-4
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C3101	C-4
C3102	B-6
C3103	C-6
C3104	C-4
C3901	F-3
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C3904	F-3
C3905	F-4
C3906	F-5
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C4003	E-4
C4005	E-4
C4006	E-4
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C4062	E-2
C4063	F-4
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C4077	E-3
C4078	E-3
C4079	E-3
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C4082	F-4
C4083	F-3
C4084	F-4
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C4903	F-6
C4904	F-6

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C7404	F-7
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C7411	E-7
C7412	E-7
C7416	F-8
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C7432	A-8
C7433	A-8
C7438	D-7
C7439	D-7
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C7519	A-3
C7523	B-3
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C7533	B-1
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C7535	B-3
C7536	B-3
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C7587	F-1
C9701	C-7
C9702	C-7
Resistor	
R1501	C-3
R1502	C-3
R1515	C-2
R3001	D-6
R3002	D-6
R3003	B-6
R3004	D-6
R3005	D-6
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R3007	D-6
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R3009	E-6
R3010	E-6
R3011	E-6
R3012	C-4
R3013	C-5
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R3015	C-4
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R3018	F-3
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R3024	E-7
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R3028	E-7
R3029	E-7
R3030	C-4
R3032	C-6
R3033	C-6
R3039	C-4
R3040	C-4

R3041	C-3
R3042	D-6
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R3046	E-6
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R3073	B-6
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R3076	D-6
R3077	B-6
R3080	B-6
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R3100	C-5
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R3103	C-3
R3106	D-7
R3107	E-7
R3108	E-7
R3901	F-3
R3902	F-2
R3903	F-3
R3904	F-3
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R3908	F-5
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R3922	F-4
R3923	F-2
R3924	F-4
R3926	F-5
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R4002	E-2
R4003	D-3
R4004	E-2
R4006	E-3
R4008	E-2
R4011	D-3
R4013	D-4
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R4024	E-2
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R4038	E-3
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R4042	E-3

R4043	E-3
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R4045	E-4
R4046	E-4
R4047	E-4
R4048	E-4
R4049	E-3
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R4052	E-2
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R4066	E-2
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R4071	F-4
R4072	D-2
R4073	D-2
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R4076	E-4
R4077	E-4
R4078	E-4
R4079	F-3
R4080	E-4
R4081	E-3
R4088	E-4
R4089	E-4
R4090	F-4
R4091	F-4
R4092	F-4
R4093	F-3
R4901	F-6
R4903	F-6
R7403	F-8
R7404	F-8
R7405	C-5
R7406	D-8
R7407	D-8
R7408	A-8
R7409	B-8
R7418	D-8
R7419	C-8
R7445	D-7
R7446	D-7
R7447	D-7
R7448	D-7
R7451	D-7
R7452	E-7
R7501	A-4
R7502	A-4
R7503	A-4
R7504	A-4
R7505	A-2
R7506	A-2
R7507	B-2
R7509	B-2
R7513	B-2
R7514	B-2
R7515	A-4
R7516	A-4
R7517	A-2
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R7522	A-2
R7523	A-2
R7524	A-2
R7525	A-4
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R7527	A-3
R7528	A-3
R7529	B-4
R7530	B-4
R7531	B-4
R7532	B-3

R7533	B-3
R7534	B-3
R7536	B-3
R7537	B-4
R7540	B-3
R7541	B-3
R7542	B-3
R7543	B-3
R7544	B-2
R7545	B-2
R7546	B-4
R7547	B-3
R7548	B-4
R7549	B-4
R7550	B-4
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R7557	B-3
R7558	B-3
R7559	B-3
R7563	B-4
R7564	C-2
R7565	A-2
R7566	A-2
R7567	A-2
R7568	A-2
R7569	A-2
R7570	A-2
R7571	A-2
R7572	A-2
R7573	A-2
R7574	A-2
R7576	B-2
R7577	B-2
R7578	B-2
R7580	B-2
R7581	B-2
R7582	B-2
R7583	B-3
R7584	B-3
R7586	C-3
R7587	B-2
R7588	B-1
R7590	A-6
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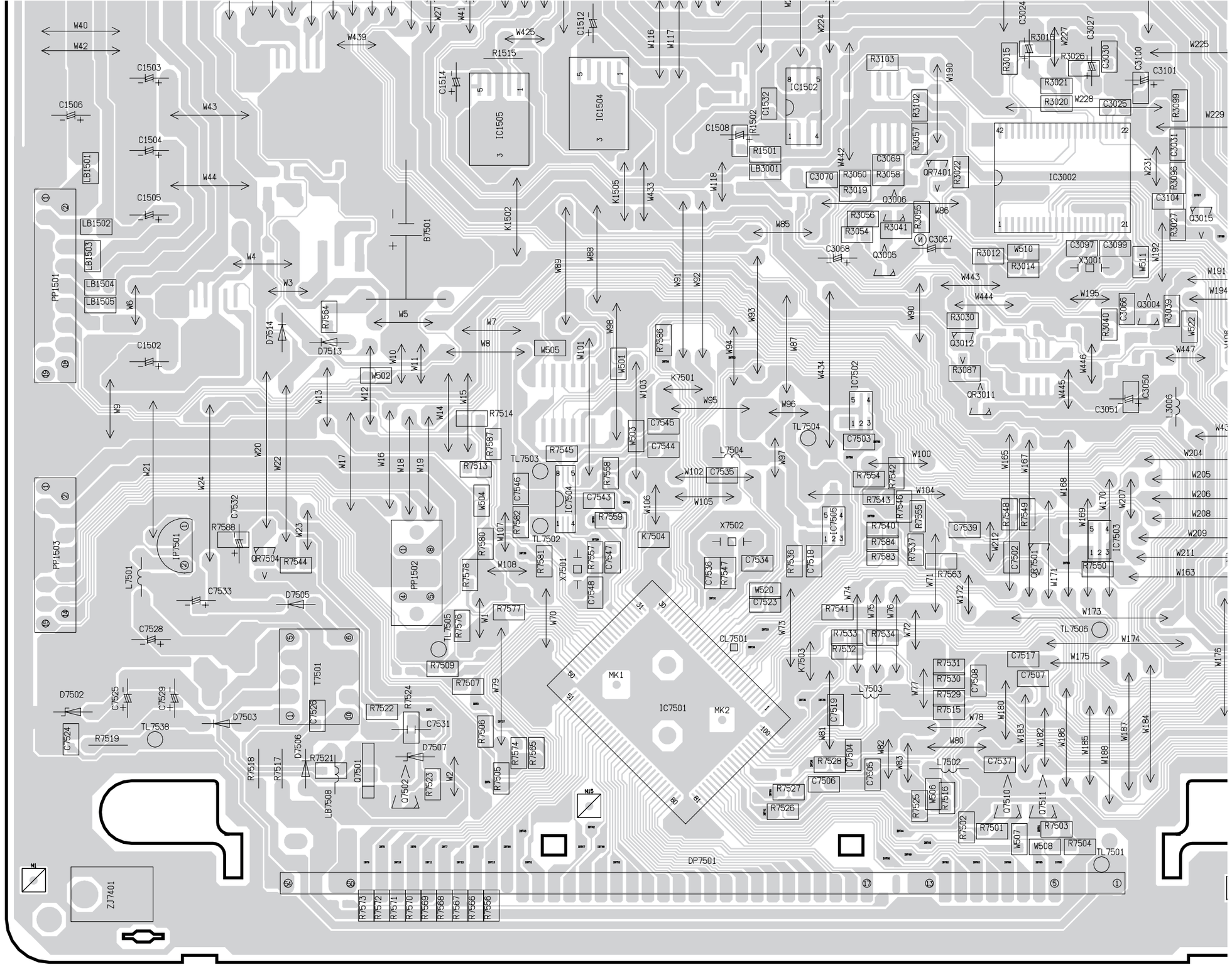
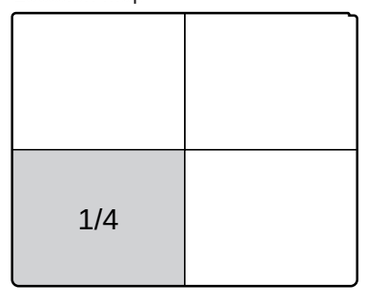
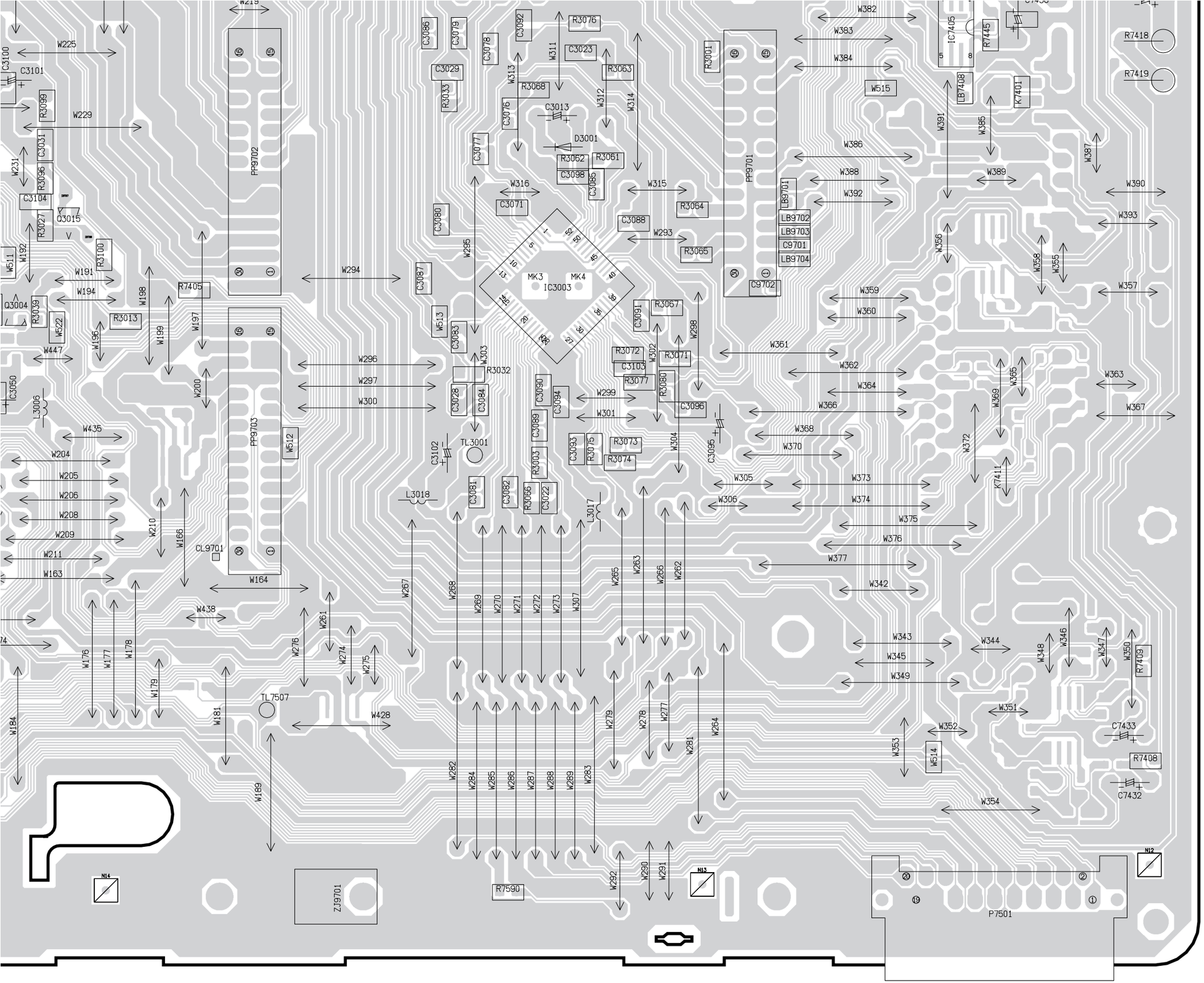
R7601	F-1
R7602	F-1
Transformer	
T7501	B-2
Backup Battery	
B7501	C-2



Location Map



DMR-E80H P/PC
Main P.C.B. (REP3497M)
(1/4 Section)



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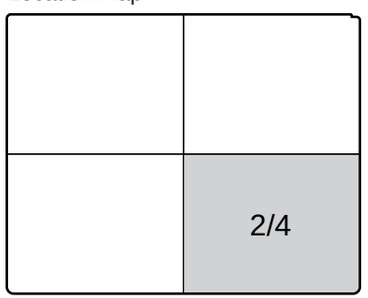
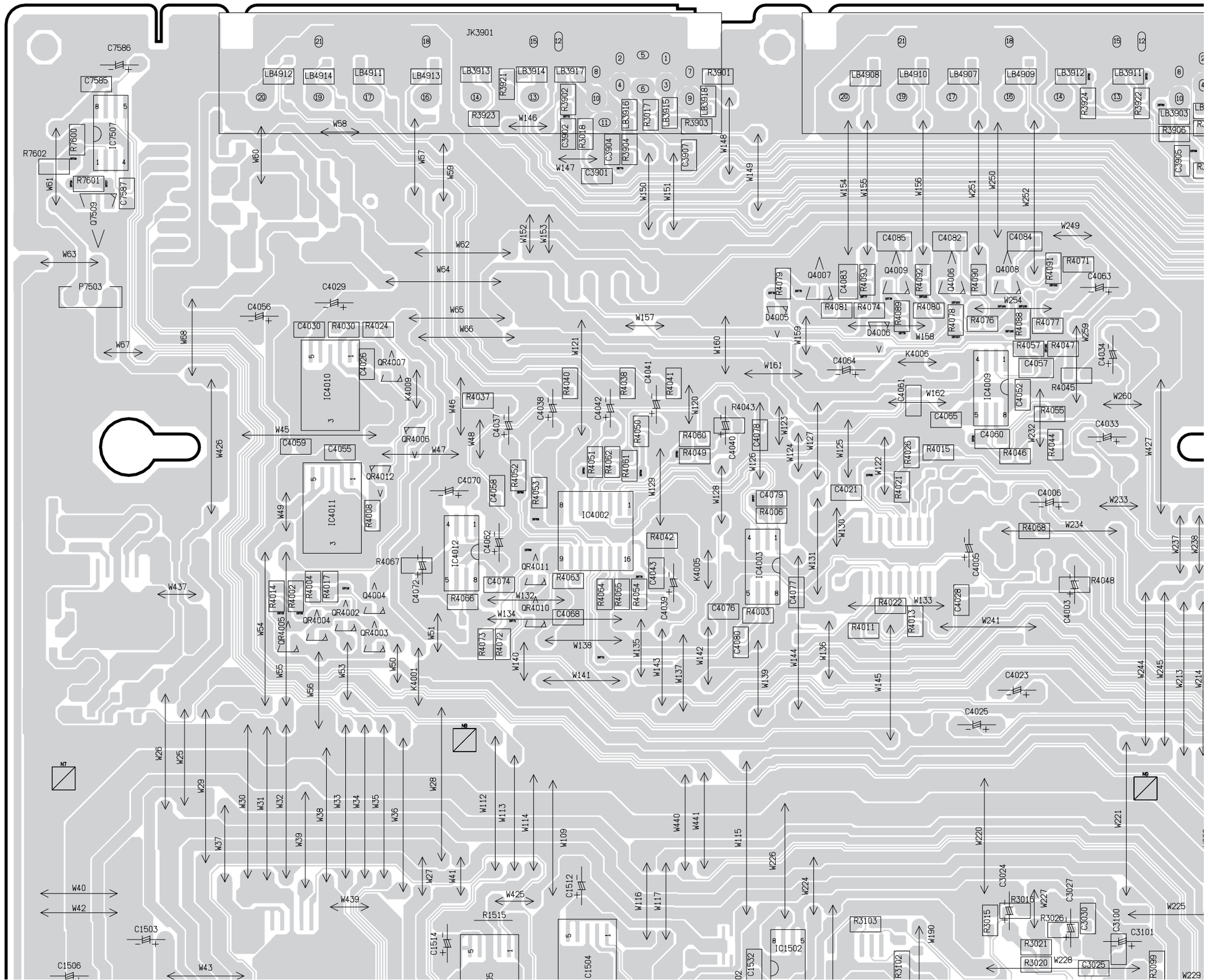


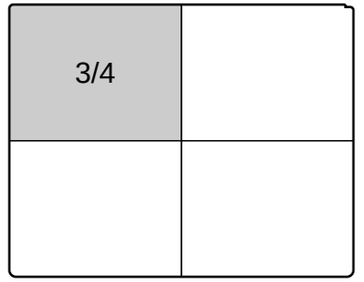
DMR-E80H P/PC
Main P.C.B. (REP3497M)
(2/4 Section)

5 6 7 8

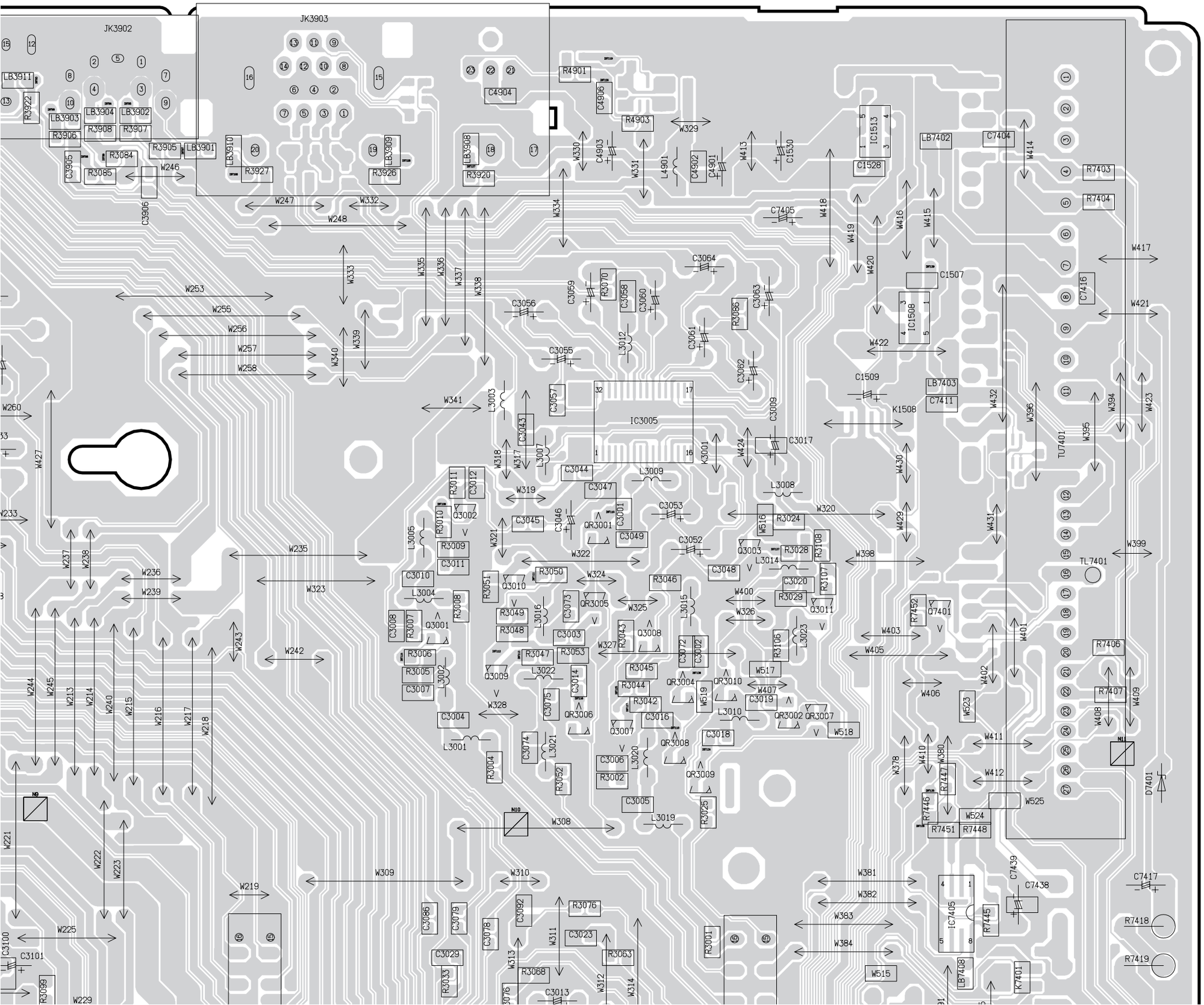
MAIN P.C.B.



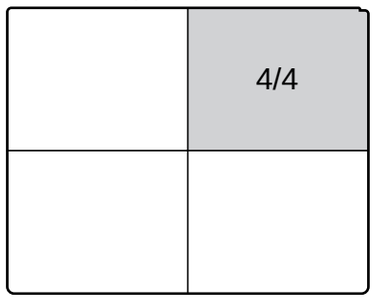
Location Map



DMR-E80H P/PC
Main P.C.B. (REP3497M)
(3/4 Section)



Location Map



DMR-E80H P/PC
Main P.C.B. (REP3497M)
(4/4 Section)

Ref No.	IC1502									IC1504						IC1505				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	1.5	1.5	3.3	3.3	0	0	1.8	1.8		4.8	5.0	0	3.3	3.3		4.8	6.6	0	5.0	5.0
PLAY	1.5	1.5	3.3	3.3	0	0	1.8	1.8		4.8	5.0	0	3.3	3.3		4.8	6.6	0	5.0	5.0
STOP	1.5	1.5	3.3	3.3	0	0	1.9	1.9		4.8	5.0	0	3.3	3.3		4.8	6.6	0	5.0	5.0

Ref No.	IC1508						IC1513													
MODE	1	2	3	4	5		1	2	3	4	5									
REC	1.2	0	4.9	6.6	4.9		1.2	0	4.8	6.6	5.0									
PLAY	1.2	0	4.9	6.6	4.9		1.2	0	4.8	6.6	5.0									
STOP	1.2	0	4.9	6.6	4.9		1.2	0	4.8	6.6	5.0									

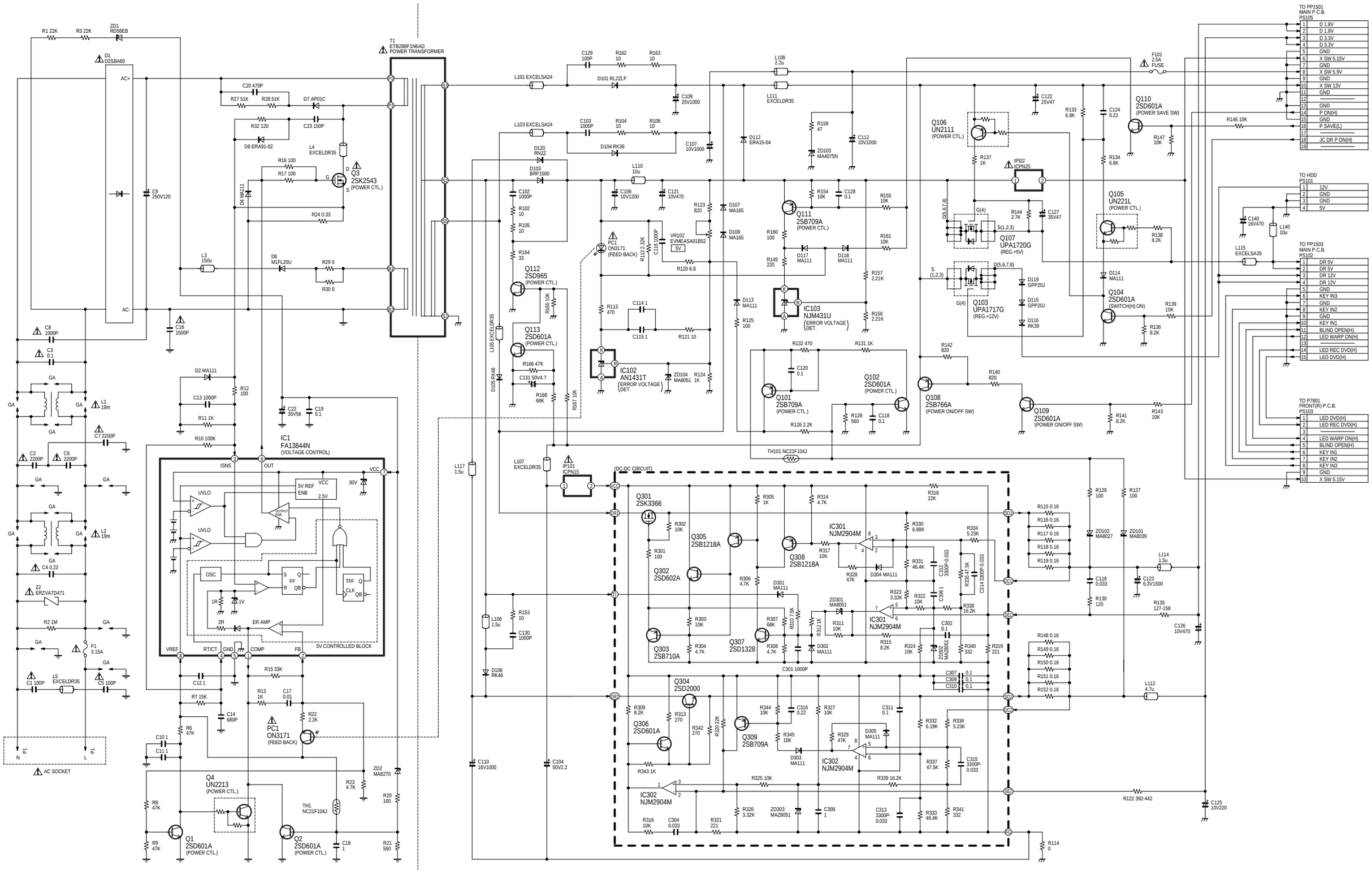
Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.3	2.3
PLAY	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.3	2.3
STOP	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.3	2.3

Ref No.	IC3002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	5.0	1.7	2.1	0.2	1.7	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
PLAY	0	5.0	1.7	2.1	0.2	1.7	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
STOP	0	5.0	1.7	2.1	0.2	1.7	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0

Ref No.	IC3002																			
MODE	41	42																		
REC	0	0																		
PLAY	0	0																		
STOP	0	0																		

Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	4.9	2.1	0	1.5	4.7	1.5	0	0.1	2.7	0	1.7	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
PLAY	1.5	4.9	2.1	0	1.5	4.7	1.5	0	0.1	2.7	0	1.7	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
STOP	1.5	4.9	2.1	0	1.5	4.7	1.5	0	0.1	2.7	0	1.7	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
PLAY	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
STOP	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
Ref No.	IC3003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	4.9	1.6	0	1.6	4.9	0.2	0.3	2.2	1.7	0.7	1.8	1.6								
PLAY	4.9	1.6	0	1.6	4.9	0.2	0.3	2.2	1.7	0.7	1.8	1.6								
STOP	4.9	1.6	0	1.6	4.9	0.2	0.3	2.2	1.7	0.7	1.8	1.6								
Ref No.	IC3005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.3	0	2.3	0
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.2	2.3	0	2.3	0
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.3	0	2.3	0
Ref No.	IC3005																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	2.0	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
PLAY	2.0	2.0	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
STOP	2.0	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3								
Ref No.	IC4002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	0	6.0	6.0	6.0	6.0	6.0	12.0				
PLAY	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	0	6.0	6.0	6.0	6.0	6.0	12.0				
STOP	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	0	6.0	6.0	6.0	6.0	6.0	12.0				
Ref No.	IC4003									IC4009										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
Ref No.	IC4010						IC4011						IC4012							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	13.9	14.5	0	12.0	12.0		6.4	6.6	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
PLAY	13.9	14.5	0	12.0	12.0		6.3	6.6	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
STOP	13.8	14.5	0	12.0	12.0		6.3	6.6	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
Ref No.	IC7405																			
MODE	1	2	3	4	5	6	7	8												
REC	0	2.4	1.8	0	2.7	2.4	3.2	4.9												
PLAY	0	2.4	1.8	0	2.7	2.4	3.2	4.9												
STOP	0	2.4	1.8	0	2.7	2.4	3.2	4.9												
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	4.6	5.0	0	0	0	5.0	2.5	0	0	0	5.0	0	4.9	3.9	0	5.0	0.6	5.0
PLAY	5.0	0	4.6	5.0	0	0	0	5.0	2.5	0	0	0	5.0	0	5.0	3.8	0	5.0	0.6	5.0
STOP	5.0	0	4.6	5.0	0	0	0	5.0	2.5	0	0	0	5.0	0	5.0	3.8	0	5.0	0.6	5.0
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	2.1	2.3	5.0	5.0	5.0	5.0	5.0	5.0	4.9	0	5.0	5.0	4.9	4.6	4.6	5.0	5.0	5.0	0
PLAY	0	2.3	2.4	5.0	5.0	5.0	5.0	5.0	5.1	4.9	0	5.0	5.0	4.9	4.6	4.6	5.0	5.0	5.0	0
STOP	0	2.2	2.4	5.0	5.0	5.0	5.0	5.0	5.1	5.0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	12.0	0
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	5.0	5.0	5.0	-25.3	-21.5	-29.0	-17.8	-13.0	-25.4	-25.3	-25.2	-21.0	-25.2	-25.2	-25.2	-17.8
PLAY	0	0	0	0	0	5.0	5.0	-25.4	-21.6	-29.1	-17.9	-17.3	-17.2	-25.3	-25.2	-25.4	-29.1	-29.1	-29.1	-17.1
STOP	0	0	0	0	0	5.0	5.0	-25.2	-21.4	-28.9	-17.7	-12.9	-21.7	-25.1	-25.1	-20.9	-25.0	-25.0	-25.1	-25.4
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-24.2	-13.5	-12.5	-13.5	-21.6	-16.1	-21.5	-17.2	-17.3	-16.6	-17.2	-25.2	-25.3	-25.4	-25.3	-25.3	-25.3	-12.7	-25.2	-21.5
PLAY	-25.3	-17.3	-17.2	-24.5	-25.3	-25.3	-25.3	-25.0	-25.3	-21.1	-17.2	-25.3	-29.1	-29.1	-25.3	-25.3	-29.1	-21.5	-25.3	-25.3
STOP	-8.1	-17.8	-16.8	-17.1	-17.3	-25.0	-25.1	-17.1	-17.3	-17.8	-12.3	-25.0	-25.1	-25.4	-25.1	-25.1	-25.1	-9.1	-16.6	-25.0
Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	-25.3	-25.3	-25.3	-25.3	-25.3	-25.3	-25.4	-25.4	-29.3	5.0	0	5.0	0	0	5.0	1.8	0	5.0	5.0	5.0
PLAY	-25.4	-25.3	-25.3	-25.4	-25.3	-25.4	-25.5	-25.5	-29.4	5.0	0	5.0	0	0	5.0	1.8	0	5.0	5.0	5.0
STOP	-25.1	-25.1	-25.1	-25.1	-25.1	-25.1	-25.2	-25.2	-29.1	5.0	5.0	5.0	0	0	5.0	0.3	0	5.0	5.0	5.0
Ref No.	IC7502						IC7503						IC7504							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	-	0	0	5.0	5.0		2.1	3.3	0	0	0		0.1	0.3	0.5	0	0.5	4.8	4.5	4.9
PLAY	-	0	0	5.0	5.0		2.1	3.3	0	0	0		0	0	0.5	0	0.5	4.8	4.5	4.9
STOP	-	0	0	5.0	5.0		2.1	3.3	0	0	0		0	0.1	0.5	0	0.5	4.8	4.5	4.9
Ref No.	IC7505						IC7507													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	4.9	4.9	0	0	0		6.0	1.7	1.7	0	1.7	1.7	1.7	14.5						
PLAY	4.9	4.9	0	0	0		6.0	1.7	1.7	0	1.7	1.7	1.7	14.5						
STOP	4.9	4.9	0	0	0		6.0	1.8	1.7	0	1.7	1.7	1.8	14.5						
Ref No.	Q3001				Q3002				Q3003				Q3004				Q3005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.1	0	1.4		1.8	0	1.1		1.9	0	1.1		2.2	0	1.6		3.4	4.8	3.4	
PLAY	2.1	0	1.4		1.8	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.8	3.4	
STOP	2.1	0	1.4		1.8	0	1.1		1.9	0	1.1		2.2	0	1.6		3.4	4.8	3.4	

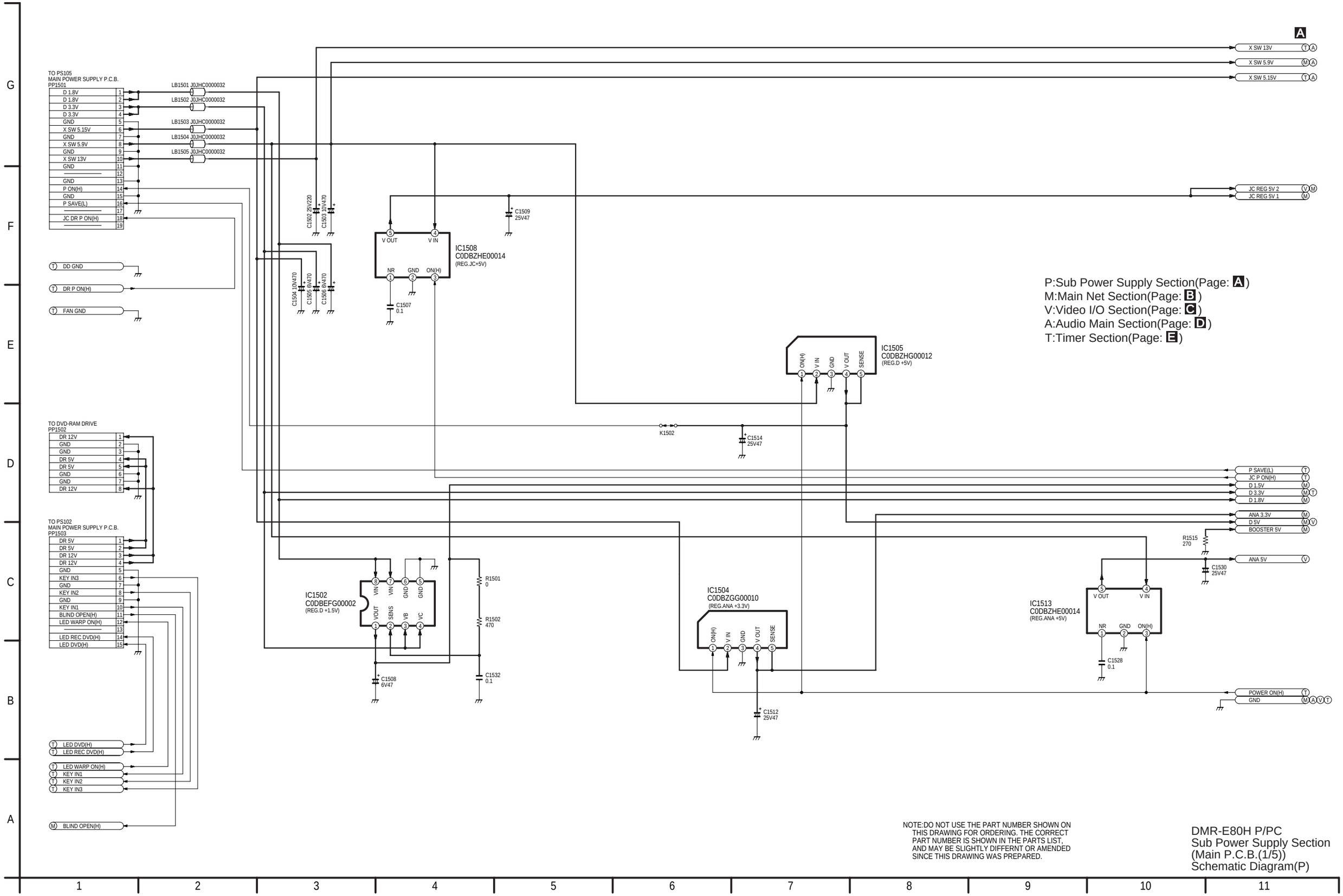
Ref No.	Q3006			Q3007			Q3008			Q3009			Q3010		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	4.9	0.5	4.8	1.7	0	1.0	1.1	4.9	1.7	1.7	0	1.0	1.1	4.9	1.7
PLAY	4.9	0.5	4.8	1.7	0	1.0	1.1	4.9	1.7	1.7	0	1.0	1.1	4.9	1.7
STOP	4.9	0.5	4.8	1.7	0	1.0	1.1	4.9	1.7	1.7	0	1.0	1.1	4.9	1.7
Ref No.	Q3011			Q3012			Q3015			Q4004			Q4006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	1.1	1.1	0	0	4.7	0.2	2.1	0	1.4	5.0	-0.9	5.0	0	0	-0.4
PLAY	1.1	1.1	0	0	4.7	0.2	2.1	0	1.4	5.0	-0.1	5.0	0	0	-0.1
STOP	1.1	1.1	0	0	4.7	0.2	2.1	0	1.4	5.0	-0.9	5.0	0	0	-0.4
Ref No.	Q4007			Q4008			Q4009			Q7401			Q7501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	-0.2	0	0	-0.4	0	0	-0.4	2.7	0	2.0	0	8.8	-1.3
PLAY	0	0	-0.2	0	0	-0.1	0	0	-0.1	2.7	0	2.1	0	8.7	-1.3
STOP	0	0	-0.1	0	0	-0.4	0	0	-0.4	2.7	0	2.1	0	8.7	-1.3
Ref No.	Q7502			Q7509			Q7510			Q7511					
MODE	E	C	B	1	2	3	E	C	B	E	C	B			
REC	0	-1.3	-2.0	5.1	14.4	5.6	-25.7	5.0	-25.6	-25.7	5.0	-25.6			
PLAY	0	-1.3	-2.0	5.1	14.4	5.6	-25.6	5.0	-25.6	-25.7	5.0	-25.7			
STOP	0	-1.3	-2.0	5.1	14.4	5.6	-25.7	5.0	-25.7	-25.7	5.0	-25.6			
Ref No.	QR3001			QR3002			QR3004			QR3005			QR3006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8
PLAY	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8
STOP	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8	0	0	4.8
Ref No.	QR3007			QR3008			QR3009			QR3010			QR3011		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	4.8	0	0	4.8	0	0.2	0	0	0	4.8	4.9	0.1	4.7
PLAY	0	0	4.8	0	0	4.8	0	0.1	0	0	0	4.8	4.9	0.1	4.7
STOP	0	0	4.8	0	0	4.8	0	0.1	0	0	0	4.8	4.9	0.1	4.7
Ref No.	QR4002			QR4003			QR4004			QR4005			QR4006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8
PLAY	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8
STOP	0	0	4.9	0	0	2.3	0	4.9	0	0	4.9	0	0	0	4.8
Ref No.	QR4007			QR4010			QR4011			QR4012			QR7501		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
REC	0	13.9	0	0	11.9	0	0	0	3.2	0	6.4	0	0	0	2.1
PLAY	0	13.9	0	0	11.9	0	0	0	3.2	0	6.3	0	0	0	2.1
STOP	0	13.8	0	0	11.9	0	0	0	3.2	0	6.2	0	0	0	2.2
Ref No.	QR7504														
MODE	E	C	B												
REC	5.1	-1.6	4.9												
PLAY	5.1	-1.6	4.9												
STOP	5.1	-1.6	4.9												



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Main Power Supply Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E80H P/PC
Sub Power Supply Section
(Main P.C.B.(1/5))
Schematic Diagram(P)

1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7501	24,98	Timer (Main)
IC7502	5	
IC7504	8	
IC7505	2	

2. JC REG.+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,15,27	Video I/O (Main)
	41,45	
IC7405	8	Main Net (Main)

3. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3005	6,11	Video I/O (Main)

4. REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4009	8	
IC4012	8	

5.X SW+13V

Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

6. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	
IC3406	26,69,107	
	153	

7. REG.D+1.5V

Ref. No.	Pin. No.	Schematic Name
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

8. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

9.REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

10. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3203	2,11,12,21	AV Input (Digital)
	26,30	
IC3402	30	AV Encoder (Digital)
IC50003	105,112,118	AV Decoder (Digital)

11. X SW+5.9V (Not Used)

12. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

13. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	38,44	
IC3202	7,12,19,25	
	30,37,42	
	48	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3204	5	
IC3205	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3403	1,3,9,14	
	27,43,49	
IC3404	1,3,9,14	
	27,43,49	
IC3406	7,15,31,43	
	47,54,70,81	
	88,91,99,106	
	114,125,130	
	138,152,168	

14. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6704	12,37	

15. REG.D+5V

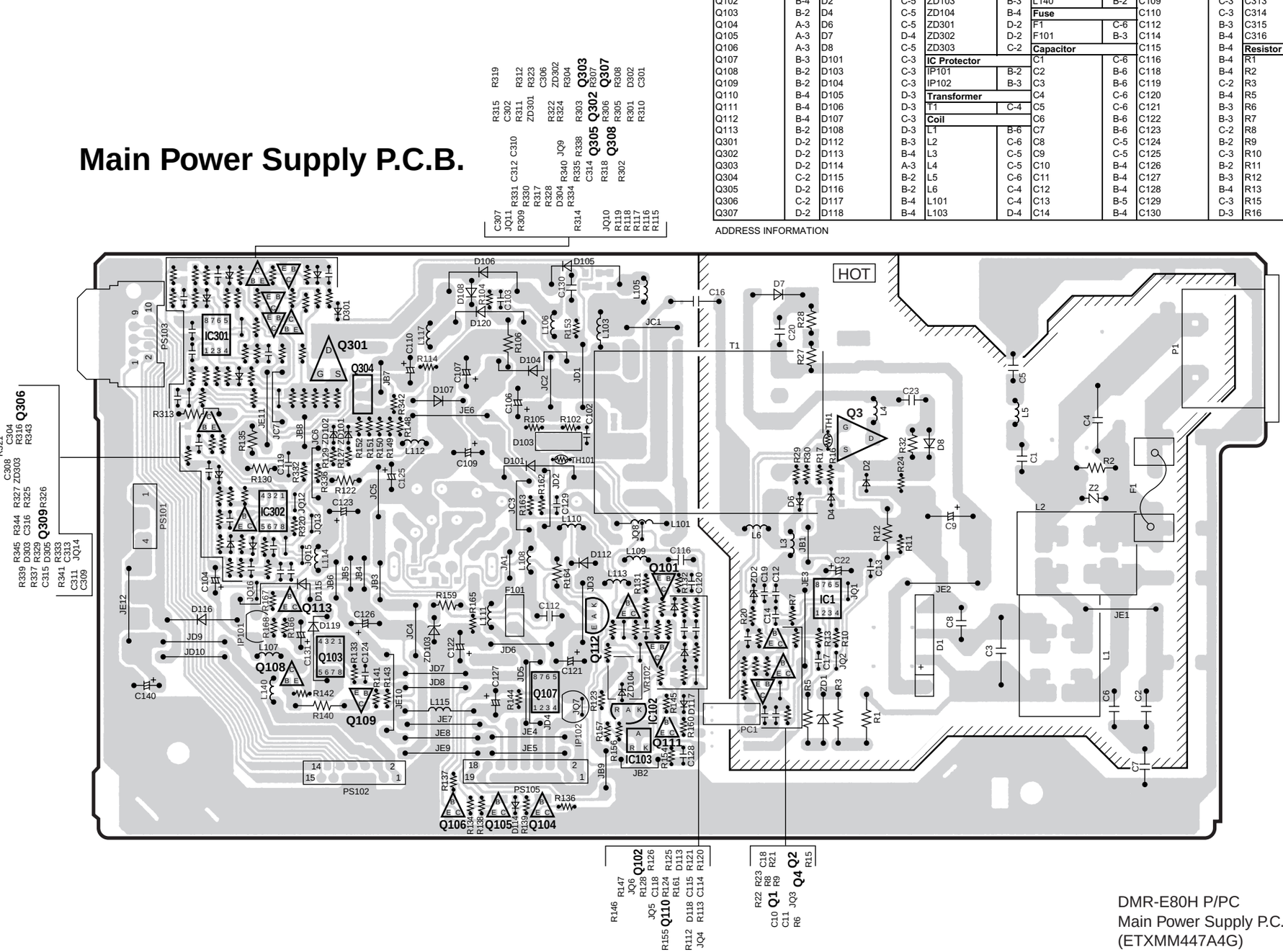
Ref. No.	Pin. No.	Schematic Name
IC3002	22	Video I/O (Main)

Main Power Supply P.C.B.

MAIN POWER SUPPLY P.C.B.

Integrated Circuit		Q308	D-2	D119	B-2	L105	D-4	C16	D-4	C131	B-2	R17	C-5	R128	B-4	R160	B-4	R323	D-2
IC1	B-5	Q309	C-2	D120	D-3	L106	D-3	C17	B-5	C140	B-1	R20	B-4	R129	C-2	R161	B-4	R324	D-2
IC102	B-4	PC1	B-4	D301	D-2	L107	B-2	C18	B-4	C301	D-2	R21	B-4	R130	C-2	R162	C-3	R325	C-2
IC103	B-4	**Connector**		D302	D-2	L108	C-3	C19	B-4	C302	D-2	R22	B-4	R131	B-4	R163	C-3	R326	C-2
IC301	D-2	P1	D-7	D303	C-2	L109	C-4	C20	D-4	C304	C-2	R23	B-4	R132	B-4	R164	B-3	R327	C-2
IC302	C-2	PS101	C-1	D304	C-2	L110	C-3	C22	B-5	C306	D-2	R24	C-5	R133	B-2	R165	B-3	R328	C-2
Transistor		PS102	A-2	D305	D-2	L111	B-3	C23	C-5	C307	C-1	R27	D-4	R134	A-3	R166	B-2	R329	C-2
Q1	B-4	PS103	D-1	Z2	C-6	L112	C-3	C102	C-4	C308	C-2	R28	D-5	R135	C-2	R167	B-2	R330	C-2
Q2	B-4	PS104	B-1	ZD1	B-5	L113	B-4	C103	D-3	C309	B-2	R29	C-5	R136	A-3	R168	B-2	R331	C-2
Q3	C-5	PS105	A-3	ZD2	B-4	L114	B-2	C104	B-2	C310	D-2	R30	C-5	R137	A-3	R301	D-2	R332	C-2
Q4	B-4	**Diode**		ZD101	C-2	L115	B-3	C106	C-3	C311	B-2	R32	C-5	R138	A-3	R302	D-2	R333	C-2
Q101	B-4	D1	B-5	ZD102	C-2	L117	D-3	C107	C-3	C312	D-2	R102	C-3	R139	A-3	R303	D-2	R334	C-2
Q102	B-4	D2	C-5	ZD103	B-3	L140	B-2	C109	C-3	C313	C-2	R104	D-3	R140	B-2	R304	D-2	R335	D-2
Q103	B-2	D4	C-5	ZD104	B-4	**Fuse**		C110	C-3	C314	D-2	R105	C-3	R141	B-2	R305	D-2	R336	C-2
Q104	A-3	D6	C-5	ZD301	D-2	F1	C-6	C112	B-3	C315	B-2	R106	D-3	R142	B-2	R306	D-2	R337	B-2
Q105	A-3	D7	D-4	ZD302	D-2	F101	B-3	C114	B-4	C316	C-2	R112	B-4	R143	B-3	R307	D-2	R338	D-2
Q106	A-3	D8	C-5	ZD303	C-2	**Capacitor**		C115	B-4	**Resistor**		R113	B-4	R144	B-3	R308	D-2	R339	B-2
Q107	B-3	D101	C-3	**IC Protector**		C1	C-6	C116	B-4	R1	B-5	R114	C-3	R145	B-4	R309	C-2	R340	D-2
Q108	B-2	D103	C-3	IP101	B-2	C2	B-6	C118	B-4	R2	C-6	R115	C-2	R146	B-4	R310	D-2	R341	B-2
Q109	B-2	D104	C-3	IP102	B-3	C3	B-6	C119	C-2	R3	B-5	R116	C-2	R147	B-4	R311	D-2	R342	C-3
Q110	B-4	D105	D-3	**Transformer**		C4	C-6	C120	B-4	R5	B-5	R117	C-2	R148	C-3	R312	D-2	R343	C-2
Q111	B-4	D106	D-3	T1	C-4	C5	C-6	C121	B-3	R6	B-5	R118	C-2	R149	C-3	R313	C-1	R344	C-2
Q112	B-4	D107	C-3	**Coil**		C6	B-6	C122	B-3	R7	B-5	R119	C-2	R150	C-2	R314	C-2	R345	C-2
Q113	B-2	D108	D-3	L1	B-6	C7	B-6	C123	C-2	R8	B-4	R120	B-4	R151	C-2	R315	D-1	VR102	B-4
Q301	D-2	D112	B-3	L2	C-6	C8	C-5	C124	B-2	R9	B-4	R121	B-4	R152	C-2	R316	C-2	**Thermister**	
Q302	D-2	D113	B-4	L3	C-5	C9	C-5	C125	C-3	R10	B-5	R122	C-2	R153	D-3	R317	C-2	TH1	C-5
Q303	D-2	D114	A-3	L4	C-5	C10	B-4	C126	B-2	R11	C-5	R123	B-4	R154	B-4	R318	D-2	TH101	C-3
Q304	C-2	D115	B-2	L5	C-6	C11	B-4	C127	B-3	R12	C-5	R124	B-4	R155	B-4	R319	D-1		
Q305	D-2	D116	B-2	L6	C-4	C12	B-4	C128	B-4	R13	B-5	R125	B-4	R156	B-4	R320	C-2		
Q306	C-2	D117	B-4	L101	C-4	C13	B-5	C129	C-3	R15	B-5	R126	B-4	R157	B-4	R321	C-2		
Q307	D-2	D118	B-4	L103	D-4	C14	B-4	C130	D-3	R16	C-5	R127	C-2	R159	B-3	R322	D-2		

ADDRESS INFORMATION


HOT
IC301
IC302
IC1
IC102
IC103
Q301
Q303
Q305
Q307
Q308
Q306
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Q108
Q109
Q107
Q112
Q101
Q111
Q106
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Q3
PS101
PS102
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PS105
PC1
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IP102
F101
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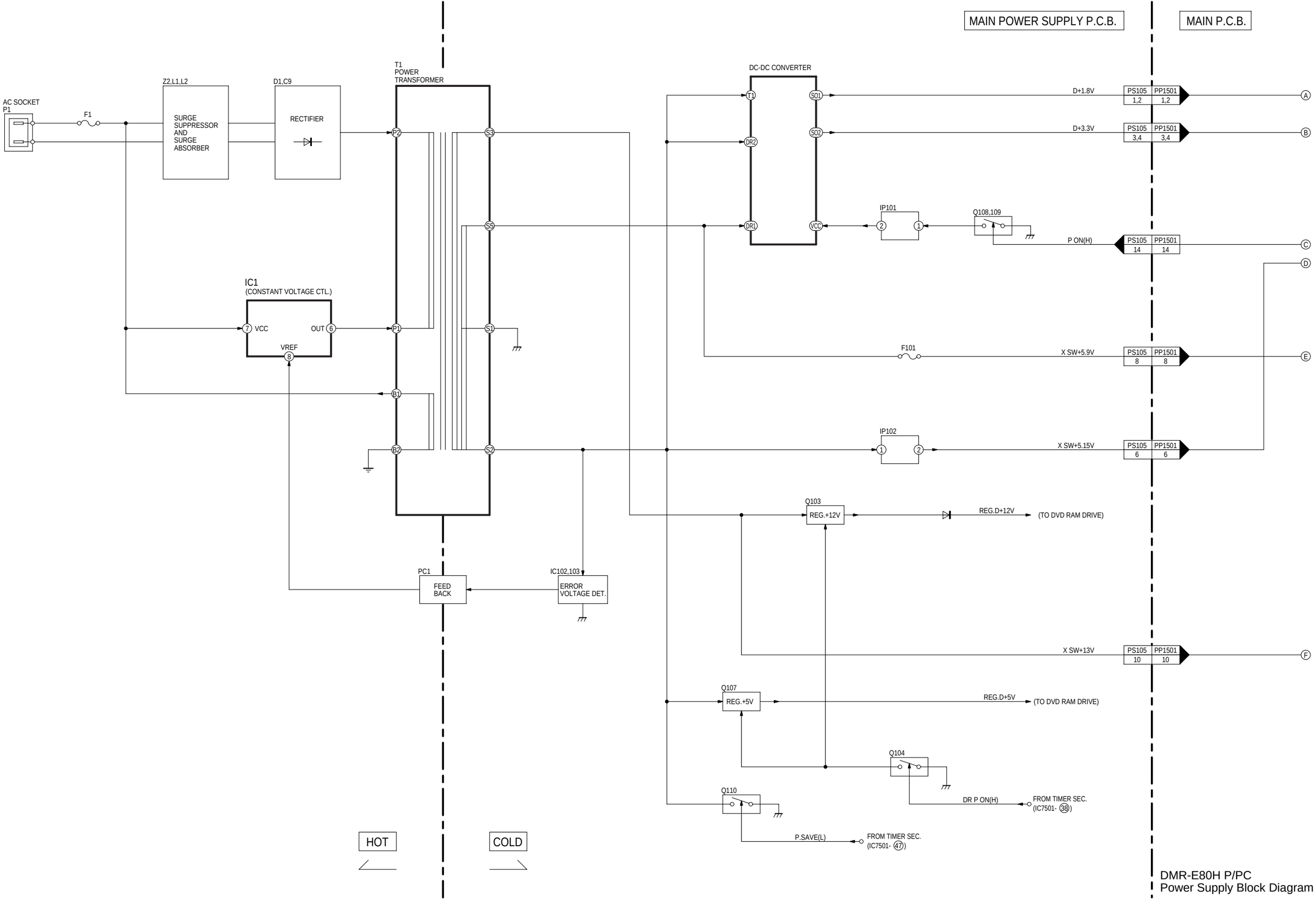
ZD102
ZD103
ZD104
ZD301
ZD302
ZD303



DMR-E80H P/PC
Power Supply Block Diagram

DIGITAL P.C.B.

Ⓐ D+1.8V → IC1502 (REG.D+1.5V) ⑦ VIN, ⑧ VIN → VOUT ①

Ⓑ D+3.3V

D+1.8V → PP9702 5,6,26 / P9002 5,6,26 → D+1.8V(PSC 6)

REG.D+1.5V → PP9702 4,27 / P9002 4,27 → REG. D+1.5V(PSC 7)

D+3.3V → PP9703 15,16 / P9003 15,16 → D+3.3V(PSC 8)

IC9001 (REG.SD+1.8V) ④ VIN → VO ⑤ → REG. SD+1.8V(PSC 9); VC ③

IC7503 (SYS PFAIL(H)OUT) ② VDD → OUT ① → QR7501 (SYS PFAIL(L)OUT) → (TO IC7501- ⑩)

Ⓒ P ON(H)

Ⓓ X SW+5.15V → X SW+5.15V(PSC 1)

IC1504 (REG.ANA+3.3V) ② VIN → VOUT ④; ON(H) ①

REG.ANA+3.3V → PP9702 2,29 / P9002 2,29 → REG.ANA+3.3V(PSC 10)

Ⓔ X SW+5.9V

X SW+5.9V → PP9702 3,28 / P9002 3,28 → X SW+5.9V(NOT USED)

IC4011 (REG.AU+5V) ② VIN → VOUT ④; ON(H) ①

QR4006,4012

REG.AU+5V → PP9702 22 / P9002 22 → REG.AU+5V(PSC 12)

IC50011 (REG.DAC+3.3V) ① VIN → VOUT ⑥; ON(H) ③ → REG.DAC+3.3V(PSC 13)

JC REG.+5V(PSC 2)

IC1508 (REG.JC+5V) ④ VIN → VOUT ⑤; ON(H) ③ → TO TU7401- ⑦, ⑬

JC P ON(H) → FROM TIMER SEC. (IC7501- ㊲)

REG.D+5V(PSC 15)

IC1513 (REG.ANA+5V) ④ VIN → VOUT ⑤; ON(H) ③ → REG.ANA+5V(PSC 3)

IC1505 (REG.D+5V) ② VIN → VOUT ④; ON(H) ①

REG.D+5V → PP9702 1,30 / P9002 1,30

IC50015 (REG.D+3.3V) ① VIN → VOUT ⑥; ON(H) ③ → REG.D+3.3V(PSC 14)

POWER ON(H) → FROM TIMER SEC. (IC7501- ㊴)

Ⓕ X SW+13V → X SW+13V(PSC 5)

IC4010 (REG.AU+9V) ② VIN → VOUT ④; ON(H) ① → REG.AU+9V(PSC 4)

QR4006,4007

IP7501 ① ② → T7501 (POWER TRA) ④ ⑥ → UNREG+38V → TO TU7401- ⑨

DMR-E80H P/PC
Power Supply Block Diagram

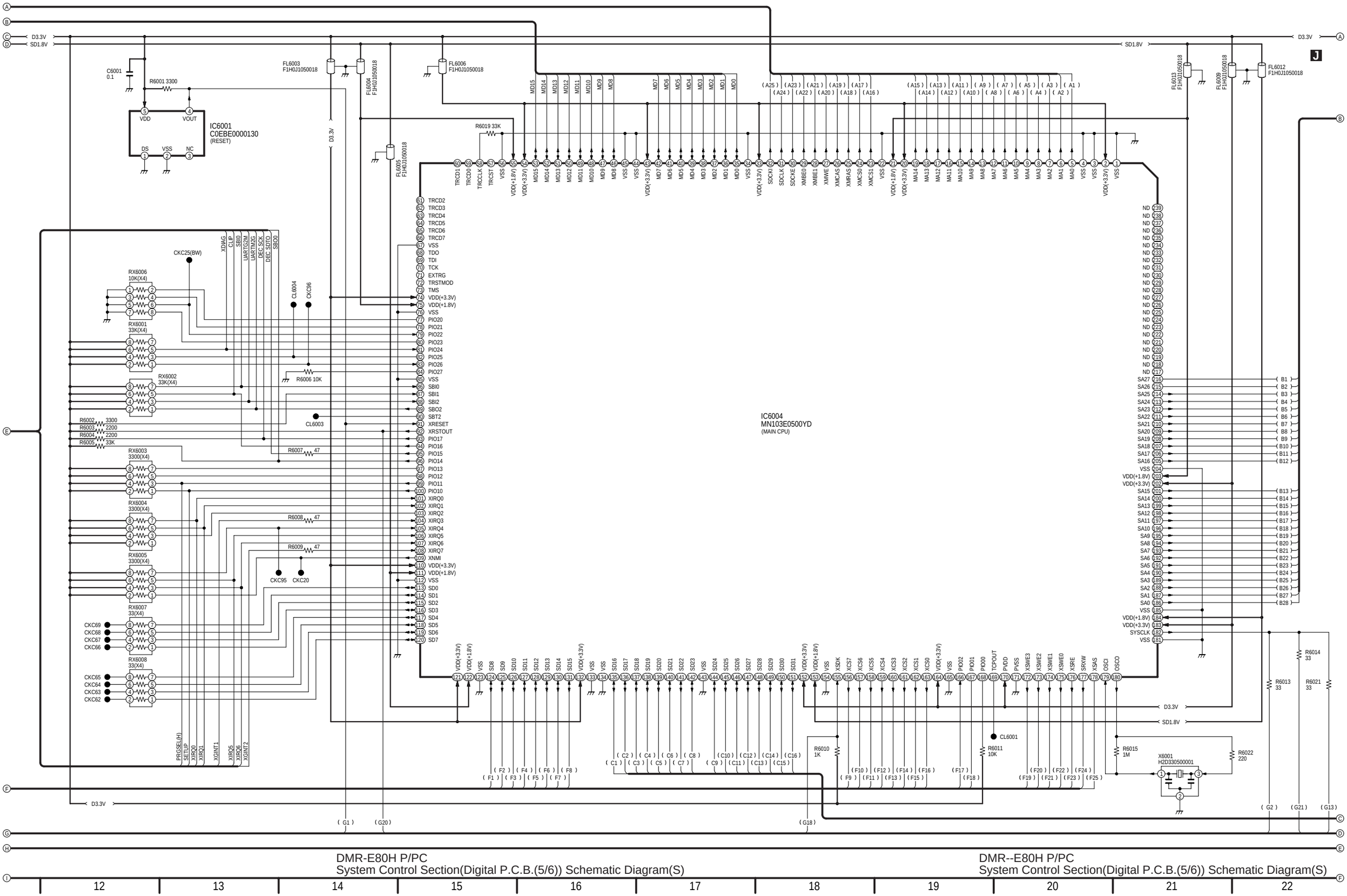
DMR-E80H P/PC
Power Supply Block Diagram

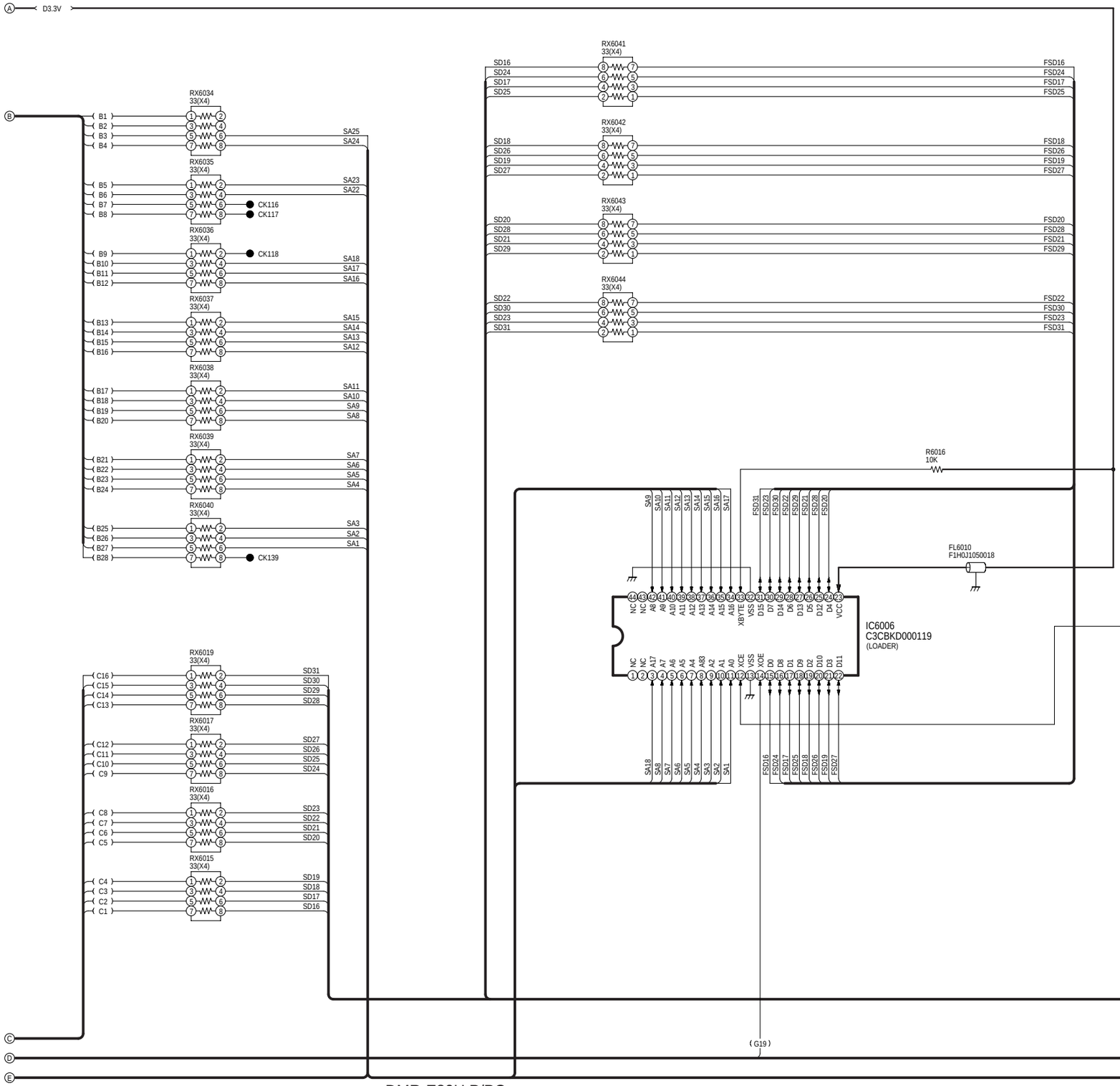
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)

IC6002
C3ABRG000016
(WORKING MEMORY)

IC6007
C0JBAZ001475
(16bit BUFFER/ADDRESS)

DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)


IC6004
MN103E0500YD
(MAIN CPU)
IC6001
C0EBE0000130
(RESET)
D3.3V
SD1.8V
CKC25(BW)
CKC95
CKC20
CL6001
CL6003
CL6004
CKC96
R6006 10K
R6010 1K
R6011 10K
R6014 33
R6013 33
R6021 33
R6015 1M
R6022 220
X6001 H2D330500001
R6019 33K
RX6001 33K(X4)
RX6002 33K(X4)
RX6003 3300(X4)
RX6004 3300(X4)
RX6005 3300(X4)
RX6006 10K(X4)
RX6007 33(X4)
RX6008 33(X4)
R6002 3300
R6003 2200
R6004 2200
R6005 33K
R6007 47
R6008 47
R6009 47
C6001 0.1
FL6003 F1H0J1050018
FL6004 F1H0J1050018
FL6005 F1H0J1050018
FL6006 F1H0J1050018
FL6008 F1H0J1050018
FL6009 F1H0J1050018
FL6012 F1H0J1050018
FL6013 F1H0J1050018
J
DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)
DMR--E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)



DMR-E80H P/PC
System Control Section(Digital P.C.B.(5/6)) Schematic Diagram(S)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E80H P/PC
System Control Section
(Digital P.C.B.(5/6))
Schematic Diagram(S)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DP7501
A2BD00000070
DISPLAY

TL7501

TL7538

TO P7001
FRONT(L)P.C.B.
P7501

IC7501
C2BBGF000419
(TIMER)

Q7510
2SD0601A0L
(DISPLAY DRIVE)

Q7511
2SD0601A0L
(DISPLAY DRIVE)

L7502
G0C220JA0019

X7502
H0D419400020
(4.194MHz)

TL7505

TL7506

TL7507

TL7504

CL7501

K7504

DMR-E80H P/PC
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

E

(A2) (A3) (A1)

R7518 330
LB7508 G0ZZ00001936
D7502 MAZ4240NMF
C7525 50V10
C7526 0.1
C7524 0.01
R7519 3.9
IP7501 D4FAR4000001
T7501 ETS13TB119AP (POWER TRANS.)
D7503 B0AAGM000007
D7506 MA2C18500E
C7532 35V47
L7501 ELESN101KA
C7529 6V220
R7588 47K
C7531 0.022
C7528 16V220
R7521 3300
D7505 MA2C18500E
C7533 50V10
R7524 100
D7507 MAZ4300NMF
Q7501 2SD1994BR1VT (VOLTAGE CTL.)
Q7502 2SD0601A0L (VOLTAGE CTL.)
R7522 100K
QR7504 UNR511300L (P.SAVE(L):ON)
R7523 100K

X SW 13V (P)
A5 LED DVD(H) (P)
A6 LED REC DVD(H) (P)
A7 LED WARP ON(H) (P)
A9 POWER ON(H) (M)(P)(A)
A10 DR P ON(H) (P)
A11 JC P ON(H) (P)
A4 P SAVE(L) (P)
UNREG38V (M)
DDGND (P)
GND (P)

C7543 100P
C7544 100P
C7545 100P
R7545 15K
D7514 B0JACE000001
TL7503
C7546 0.1
D7513 B0JACE000001
R7564 1000
B7501 CR2032-1GUF
BACK-UP BATTERY
IC7504 C0ZBZ0000732 (REAL TIME IC)
VDD SIO SCK CS
INT XIN XOUT VSS
TL7502
X7501 H0A327200082 (32.768MHz)
R7557 0
C7547 3P
C7548 3P

C7585 0.01
IC7507 C0ABBA000073 (FAN MOTOR DRIVE)
Q7509 2SD0874A0L (FAN MOTOR DRIVE)
R7601 820
R7602 18K
C7587 0.01
C7586 16V47
R7600 10K
R7563 47K
TO FAN MOTOR P7503
1 FANPWM
2 GND
3 FANLOCK(H)
FAN GND (P)

IC7505 C0EBH0000263 (RESET)
CD NC OUT VDD GND
C7518 0.1
IC7503 C0EBF0000182 (SYS PFAIL(H)OUT)
NC NC OUT VDD GND
QR7501 UNR521200L (SYS PFAIL(H)OUT)
R7550 15K
R7555 47K
IC7502 C0EBJ0000143 (P FAIL(L) OUT)
VCC VOUT NC SUB GND

X SW 5.15V (P)
D3.3V (P)

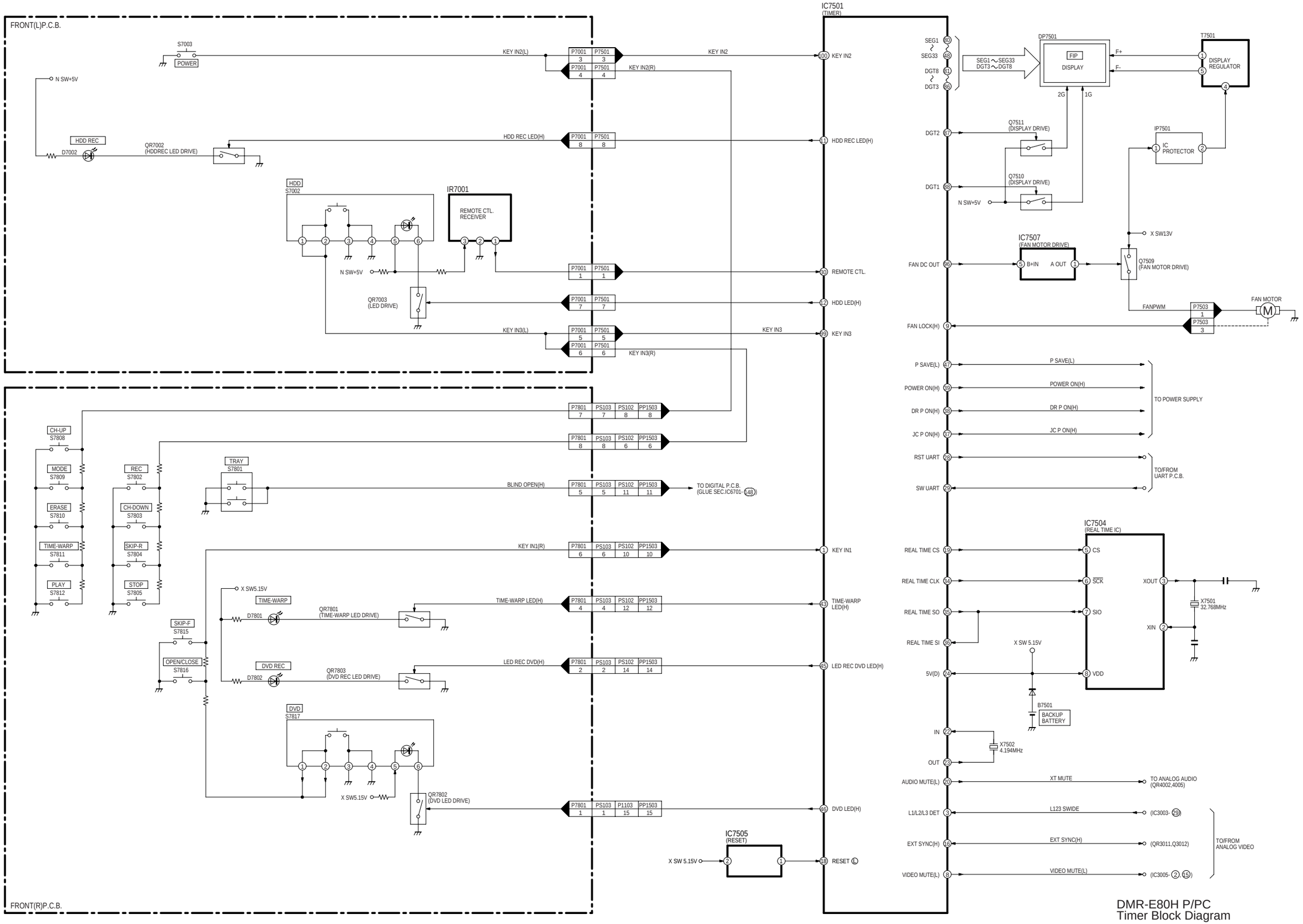
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

(B14) (B13) (B10) (B12) (B15) (B11)

DMR-E80H P/PC
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

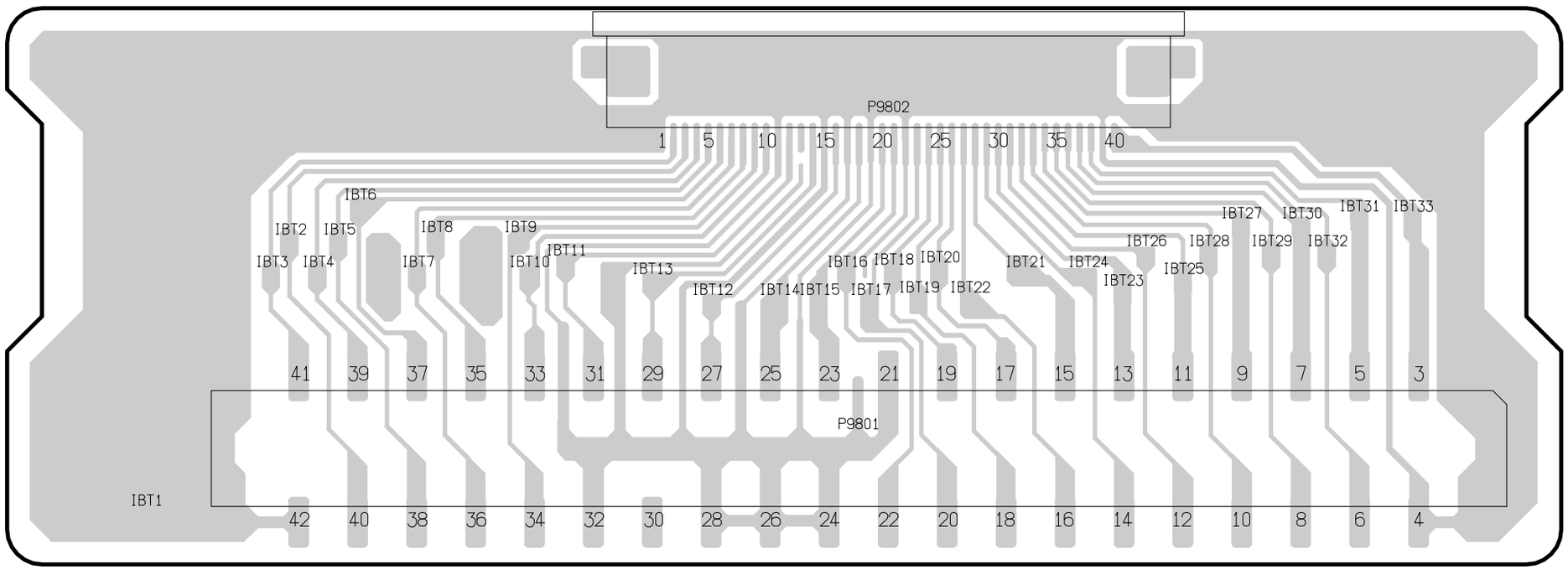
DMR-E80H P/PC
Timer Section
(Main P.C.B.(5/5))
Schematic Diagram(T)

12 13 14 15 16 17 18 19 20 21 22



DMR-E80H P/PC
Timer Block Diagram

ATAPI P.C.B.



DMR-E80H P/PC
ATAPI P.C.B. (REP3542A)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

JK3901
K1U822B00001
EXTERNAL
AV IN JACK

JK3902
K1U820B00002
AV OUT JACK

IC3002
C2BBFE000137
(DATA SLICE)

IC3003
C1AB00001805
(VIDEO AGC)

Q3015
2SB1218A0L
(VIDEO SYNC OUT)

Q3004
2SB1218A0L
(BUFFER)

Q3005
2SD1819A0L
(BUFFER)

Q3006
2SB1218A0L
(BUFFER)

Q3012
2SD1819A0L
(EXT-SYNC(L)OUT)

QR3011
UNR511300L
(EXT-SYNC(H) OUT)

DMR-E80H P/PC
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

JK3903
K1U407B0003

RED BLUE GREEN

COMPONENT VIDEO OUT (525P/525I)

DIGITAL AUDIO OUT

GND VCC IN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

L8908 J0JCC0000103
L8909 J0JCC0000103
L8910 J0JCC0000103

R3920 75
R3926 75
R3927 75

C4904 0.1
C4903 6.3V47

L4901 ELESN220KA

R4901 0
R4903 0
C4906 22P

IECOUT (M)

(A36) (A37) (A38)

R3108 10K
C4902 0.1
C4901 10V100

ANA 5V

L3003 G0C120JA0019
C3012 0.01
C3017 0.01
C3008 0.01
C3009 6V47
R3007 1K

L3001 G0C120JA0019
L3002 G0C220JA0019
R3006 100
R3004 560
C3004 47P
C3007 39P
R3005 10K
Q3001 2SB1218A0L (BUFFER)
R3011 1K

L3004 G0C120JA0019
L3005 G0C220JA0019
R3010 100
R3008 560
C3010 68P
C3011 39P
R3009 10K
Q3002 2SB1218A0L (BUFFER)
R3024 1K

L3010 G0C4R7JA0019
L3014 G0C120JA0019
R3028 100
R3025 560
C3018 22P
C3020 33P
R3029 10K
Q3003 2SA153200L (BUFFER)

Q3011 2SC393000L (PROGRESSIVE)
R3106 1K
R3107 47K
C3019 33P
L3023 G0C120JA0019

QR3010 UNR521300L (PROGRESSIVE)
QR3001 UNR521100L (PROGRESSIVE)
C3001 47P

QR3009 UNR521300L (PROGRESSIVE)
QR3002 UNR521300L (PROGRESSIVE)
QR3007 UNR521300L (PROGRESSIVE)

R3043 1K
R3044 150
R3045 150
L3015 G0C4R7JA0019
C3002 47P
C3072 47P
Q3008 2SD1819A0L (BUFFER)
R3046 2200
QR3004 UNR521100L (PROGRESSIVE)

L3019 G0C6R8JA0019
L3020 G0C120JA0019
R3042 100
R3001 560
C3005 56P
C3016 22P
C3006 39P
R3002 10K
Q3007 2SB1218A0L (BUFFER)
QR3008 UNR521300L (PROGRESSIVE)

R3048 1K
R3049 150
R3050 150
L3016 G0C4R7JA0019
C3003 47P
C3073 47P
Q3010 2SD1819A0L (BUFFER)
R3051 2200
QR3005 UNR521100L (PROGRESSIVE)

L3021 G0C6R8JA0019
L3022 G0C120JA0019
R3047 100
R3052 560
C3074 56P
C3014 22P
C3075 39P
R3053 10K
Q3009 2SB1218A0L (BUFFER)
QR3006 UNR521300L (PROGRESSIVE)

(C1) (C2) (C3) (C5) (C4) (C6)

(A27) (A32) (A29) (A26) (A28) (A38) (A37) (A36)

R3084 9.1K
R3085 9.1K
C3906 0.01
C3905 0.01
C3057 0.1
C3055 6V1000
C3056 6V100
C3058 56P
L3012 G0C4R7-JA0019
R3070 0
C3059 6V1000
C3060 6V100
R3086 0
C3061 6V1000
C3062 6V100
C3063 6V330
C3064 6V330

IC3005
C9ZB00000377
(VIDEO DRIVE)

COUT TEST MIXOUT MIXFB GND YTRAP GND YOUT YFB GND PYOUT PYFB GND PbOUT PrOUT
75Ω 6dB

1.5-6M BPF
CLAMP
6M LPF
CLAMP
12M LPF
6M LPF
6M LPF

CTRAP MUTE1 CIN 20K GND YIN VCC GND PYIN GND PYTRAP VCC PbIN 20K GND PrIN 20K MUTE2 PrTRAP
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

L3007 G0C4R7JA0019
C3043 56P
K3001

L3008 G0C220JA0019
C3047 0.01
C3046 6V47
C3044 0.1
C3045 1
C3048 1
L3009 G0C4R7-JA0019
C3052 6V47
C3053 6V47
C3049 15P

(C10) (C13)

(A16) L1 IN L (A)
(A15) L3 IN L (A)
(A14) L1 IN R (A)
(A13) L3 IN R (A)
(A31) CPNCIN DM (M)
(A30) V YIN DM (M)
(A35) L123 SWIDE (T)

GND (P)
AU GND (A)

DMR-E80H P/PC
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

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DMR-E80H P/PC
Video I/O Section
(Main P.C.B.(3/5))
Schematic Diagram(V)

12 13 14 15 16 17 18 19 20 21 22

Ref No. / MODE	QR7002			QR7003		
	E	C	B	E	C	B
REC	0	4.1	0	0	3.8	0
PLAY	0	4.2	0	0	3.9	0
STOP	0	4.1	0	0	3.9	0

Ref No. / MODE	QR7801			QR7802			QR7803		
	E	C	B	E	C	B	E	C	B
REC	0	3.7	0	0	0	5.0	0	0	5.0
PLAY	0	3.6	0	0	0	5.0	0	3.9	0
STOP	0	3.7	0	0	0	5.0	0	3.9	0